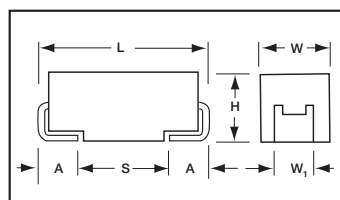


# TBJ Series

## COTS-Plus



The TBJ COTS-Plus series, based on the CWR11 form factor, is a high reliability series encompassing the current range of EIA Low ESR ratings. These ratings are available with Weibull grading (B and C), surge current testing (A, B, C) per MIL-PRF-55365 Rev. G, and optional Group A from MIL-PRF-55365.

For Space Level applications, AVX SRC 9000 qualification is recommended. Please refer to the TBJ COTS-Plus SRC9000 Datasheet for part number availability.

There are five termination finishes available: solder plated, fused solder plated, hot solder dipped, 100% Tin and gold plated (these correspond to "H", "K", "C", "7" and "B" termination, respectively). The molding compound has been selected to meet the requirements of UL94V-0 (Flame Retardancy) and outgassing requirements of NASA SP-R-0022A.

The TBJ "E" and "V" case size components are considered to be MSL 3 in accordance with J-STD-020.

### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H+0.20 (0.008) -0.10 (0.004) | W <sub>1</sub> ±0.20 (0.008) | A+0.30 (0.012) -0.20 (0.008) | S Min.       |
|------|----------|------------|----------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------|
| A    | 1206     | 3216-18    | 3.20 (0.126)   | 1.60 (0.063)                 | 1.60 (0.063)                 | 1.20 (0.047)                 | 0.80 (0.031)                 | 1.10 (0.043) |
| B    | 1210     | 3528-21    | 3.50 (0.138)   | 2.80 (0.110)                 | 1.90 (0.075)                 | 2.20 (0.087)                 | 0.80 (0.031)                 | 1.40 (0.055) |
| C    | 2312     | 6032-28    | 6.00 (0.236)   | 3.20 (0.126)                 | 2.60 (0.102)                 | 2.20 (0.087)                 | 1.30 (0.051)                 | 2.90 (0.114) |
| D    | 2917     | 7343-31    | 7.30 (0.287)   | 4.30 (0.169)                 | 2.90 (0.114)                 | 2.40 (0.094)                 | 1.30 (0.051)                 | 4.40 (0.173) |
| E    | 2917     | 7343-43    | 7.30 (0.287)   | 4.30 (0.169)                 | 4.10 (0.162)                 | 2.40 (0.094)                 | 1.30 (0.051)                 | 4.40 (0.173) |
| U    | 2924     | 7361-43    | 7.30 (0.287)   | 6.10 (0.240)                 | 4.10 (0.162)                 | 3.10 (0.120)                 | 1.30 (0.051)                 | 4.40 (0.173) |

W<sub>1</sub> dimension applies to the termination width for A dimensional area only.

## HOW TO ORDER

### AVX PART NUMBER:

| TBJ  | D         | 227                                                                                                                                      | *                                             | 035                                                                                                                    | C                                 | B                                                                | S                                                       | Z                                                                                                            | 0                              | 0                                                                                                                                               | 00                                                                                                                                       |
|------|-----------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Type | Case Size | Capacitance Code<br>pF code:<br>1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | Capacitance Tolerance<br>K = ±10%<br>M = ±20% | Voltage Code<br>006 = 6.3Vdc<br>010 = 10Vdc<br>016 = 16Vdc<br>020 = 20Vdc<br>025 = 25Vdc<br>035 = 35Vdc<br>050 = 50Vdc | ESR<br>C = Std ESR<br>L = Low ESR | Packaging<br>B = Bulk<br>R = 7" T&R<br>S = 13" T&R<br>W = Waffle | Inspection Level<br>S = Std. Conformance<br>L = Group A | Reliability Grade<br>Weibull:<br>B = 0.1%/1000 hrs. 90% conf.<br>C = 0.01%/1000 hrs. 90% conf.<br>Z = Non-ER | Qualification Level<br>0 = N/A | Termination Finish<br>H = Solder Plated<br>0 = Fused Solder Plated<br>8 = Hot Solder Dipped<br>9 = Gold Plated<br>7 = Matte Sn (COTS-Plus only) | Surge Test Option<br>00 = None<br>23 = 10 Cycles, +25°C<br>24 = 10 Cycles, -55°C & +85°C<br>45 = 10 cycles, -55°C & +85°C before Weibull |

Not RoHS Compliant



## TECHNICAL SPECIFICATIONS

|                                     |                                                                                         |     |     |   |    |    |    |    |    |    |
|-------------------------------------|-----------------------------------------------------------------------------------------|-----|-----|---|----|----|----|----|----|----|
| Technical Data:                     | Unless otherwise specified, all technical data relate to an ambient temperature of 25°C |     |     |   |    |    |    |    |    |    |
| Capacitance Range:                  | 0.10 µF to 1500 µF                                                                      |     |     |   |    |    |    |    |    |    |
| Capacitance Tolerance:              | ±10%; ±20%                                                                              |     |     |   |    |    |    |    |    |    |
| Rated Voltage: (V <sub>R</sub> )    | ≤85°C:                                                                                  | 2   | 4   | 6 | 10 | 16 | 20 | 25 | 35 | 50 |
| Category Voltage: (V <sub>C</sub> ) | 125°C:                                                                                  | 1.4 | 2.7 | 4 | 7  | 10 | 13 | 17 | 23 | 33 |
| Surge Voltage: (V <sub>S</sub> )    | ≤85°C:                                                                                  | 2.6 | 5.2 | 8 | 13 | 20 | 26 | 32 | 46 | 65 |
|                                     | 125°C:                                                                                  | 1.7 | 3.4 | 5 | 8  | 13 | 16 | 20 | 28 | 40 |
| Temperature Range:                  | -55°C to +125°C                                                                         |     |     |   |    |    |    |    |    |    |



| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) to 85°C |                                    |                                                  |                                                         |          |                                               |                                            |                                          |                                                 |                            |
|-------------|------|--------------------------------------------|------------------------------------|--------------------------------------------------|---------------------------------------------------------|----------|-----------------------------------------------|--------------------------------------------|------------------------------------------|-------------------------------------------------|----------------------------|
| μF          | Code | 2V                                         | 4V                                 | 6V                                               | 10V                                                     | 15V      | 16V                                           | 20V                                        | 25V                                      | 35V                                             | 50V                        |
| 0.10        | 104  |                                            |                                    |                                                  |                                                         |          |                                               |                                            |                                          | A(24000)                                        | A(22000)                   |
| 0.15        | 154  |                                            |                                    |                                                  |                                                         |          |                                               |                                            |                                          | A(21000)                                        | A(9000, 21000)<br>B(17000) |
| 0.22        | 224  |                                            |                                    |                                                  |                                                         |          |                                               |                                            |                                          | A(6000, 18000)                                  | A(7000, 18000)<br>B(14000) |
| 0.33        | 334  |                                            |                                    |                                                  |                                                         |          |                                               |                                            |                                          | A(6000, 15000)                                  | B(12000)                   |
| 0.47        | 474  |                                            |                                    |                                                  |                                                         |          |                                               | A(14000)                                   | A(7000, 14000)                           | A(6000, 12000)<br>B(4000, 10000)                | C(8000)                    |
| 0.68        | 684  |                                            |                                    |                                                  |                                                         | A(12000) | A(12000)                                      | A(12000)                                   | A(6000, 10000)<br>B(7500)                | A(6000, 8000)<br>B(8000)                        | A(7900)<br>C(7000)         |
| 1.0         | 105  |                                            |                                    |                                                  | A(10000)                                                | A(10000) | A(10000)                                      | A(3000, 10000)                             | A(8000)<br>B(6500)                       | A(3000, 7500)<br>B(2000, 6500)                  | C(2500, 6000)              |
| 1.5         | 155  |                                            |                                    | A(8000)                                          | A(8000)                                                 | A(8000)  |                                               | A(6500)<br>B(6000)                         | A(3000, 7500)<br>B(1800, 6500)           | A(7500)<br>B(2500, 5200)<br>C(4500)             | C(1500, 5000)<br>D(4000)   |
| 2.2         | 225  |                                            | A(8000)                            | A(8000)                                          | A(1800, 8000)                                           | B(5500)  | A(1800, 5500)<br>B(5000)                      | A(3000, 5300)<br>B(5000)                   | A(7000)<br>B(900, 4500)<br>C(3500)       | A(1500, 4500)<br>B(2000, 4200)<br>C(1000, 3500) | D(1200, 2500)              |
| 3.3         | 335  |                                            |                                    | A(8000)                                          | A(5500)<br>B(5500)                                      | B(5000)  | A(3500, 5000)<br>B(4500)                      | A(2500)<br>B(1300, 4000)                   | A(1000, 1500)<br>B(750, 3500)<br>C(3500) | B(1000, 3500)<br>C(700, 2500)                   | D(800, 2000)               |
| 4.7         | 475  |                                            | A(8000)                            | A(6000)<br>B(5500)                               | A(1400, 5000)<br>B(4500)                                | B(4000)  | A(2000, 4000)<br>B(800, 3100)                 | A(1800, 4000)<br>B(750, 3000)<br>C(3000)   | A(2800)<br>B(1500, 2800)<br>C(2500)      | B(700, 3100)<br>C(600, 2200)<br>D(500, 1500)    | D(300, 1500)               |
| 6.8         | 685  |                                            | A(6500)<br>B(5500)                 | A(1800, 5000)<br>B(4500)                         | A(1800, 4000)<br>B(3500)                                |          | A(1500, 2500)<br>B(60, 2500)<br>C(2500)       | A(1000)<br>B(600, 2500)<br>C(700, 2400)    | B(700, 2800)<br>C(500, 2000)<br>D(1400)  | C(350, 1800)<br>D(500, 1300)                    | D(500, 1000)               |
| 10          | 106  |                                            | A(6000)<br>B(4000)                 | A(1500, 4000)<br>B(3500)                         | A(1800, 3000)<br>B(2500)<br>C(2500)                     | C(2500)  | A(1000, 3000)<br>B(500, 2800)<br>C(500, 2500) | B(1000, 2100)<br>C(500, 1900)              | C(500, 1800)<br>D(1200)                  | C(600, 1600)<br>D(300, 1000)<br>E(200, 250)     | E(400, 500)<br>V(650)      |
| 15          | 156  |                                            | A(4000)<br>B(3500)                 | A(1500, 3500)<br>B(3500)<br>C(3000)              | A(1000, 3200)<br>B(450, 2800)<br>C(2500)                |          | B(800, 2500)<br>C(1800)                       | B(500, 2000)<br>C(400, 1700)<br>D(1100)    | C(220, 300)<br>D(300, 1000)              | C(350, 1400)<br>D(300, 900)                     | D(600)<br>E(250, 600)      |
| 22          | 226  |                                            | A(3500)                            | A(500, 3000)<br>B(375, 2500)<br>C(2200)          | B(700, 2400)<br>C(300, 1000)                            | D(1100)  | B(600, 2300)<br>C(375, 1600)<br>D(1100)       | B(400, 600)<br>C(150, 1600)<br>D(200, 900) | C(275, 1400)<br>D(200, 900)              | D(400, 900)<br>E(300, 900)                      | V(390, 600)                |
| 33          | 336  |                                            | A(3000)<br>B(2800)<br>C(2200)      | A(600)<br>B(600, 2200)<br>C(1800)                | A(700, 1700)<br>B(250, 1800)<br>C(150, 1600)<br>D(1100) | D(900)   | B(350)<br>C(300, 1500)<br>D(200, 900)         | C(300, 1500)<br>D(100, 900)                | D(100, 900)<br>E(300, 900)               | D(300, 900)<br>E(100, 250)<br>V(200)            |                            |
| 47          | 476  |                                            | A(500)<br>B(2400)                  | A(800)<br>B(250, 350)<br>C(300, 1600)<br>D(1100) | B(250, 350)<br>C(200, 1200)<br>D(100, 900)              |          | C(350, 1500)<br>D(150, 900)                   | D(100, 200)<br>E(70, 250)                  | D(250, 900)<br>E(80, 100)                | E(200, 250)<br>V(200, 400)                      |                            |
| 68          | 686  |                                            | C(1600)<br>D(1100)                 | B(250, 1800)<br>C(150, 1600)<br>D(900)           | B(600)<br>C(80, 1200)<br>D(100, 900)                    |          | C(125, 200)<br>D(70, 900)                     | D(70, 900)<br>E(150, 900)                  | E(125, 200)<br>V(95)                     | V(150, 200)                                     |                            |
| 100         | 107  |                                            | A(1400)<br>B(200, 1600)<br>C(1300) | B(250, 400)<br>C(150, 900)<br>D(900)             | B(400)<br>C(200, 1200)<br>D(100, 900)<br>E(125)         |          | D(125, 900)<br>E(100, 900)                    | D(85, 100)<br>E(100, 150)<br>V(85, 200)    | V(100)                                   |                                                 |                            |
| 150         | 157  | B(150)                                     | B(250)<br>C(70, 80)                | C(50, 90)<br>D(50, 900)                          | D(150, 900)<br>E(100)                                   |          | D(150, 900)<br>E(100, 300)<br>V(45, 75)       | E(300)<br>V(80)                            |                                          |                                                 |                            |
| 220         | 227  | B(150, 200)<br>D(45)                       | D(40, 900)                         | C(70, 1200)<br>D(100, 900)<br>E(100)             | D(150, 900)<br>E(100, 900)                              |          | E(100, 150)<br>V(75, 150)                     |                                            |                                          |                                                 |                            |
| 330         | 337  |                                            | C(100)<br>D(35, 45)<br>E(900)      | D(45, 50)<br>E(100, 900)<br>V(100)               | D(150, 900)<br>E(60, 900)<br>V(60, 100)                 |          |                                               |                                            |                                          |                                                 |                            |
| 470         | 477  | D(35)                                      | D(45, 100)<br>E(35)                | D(45, 60)<br>E(50, 900)<br>V(55, 100)            | E(50, 900)<br>V(60, 100)                                |          |                                               |                                            |                                          |                                                 |                            |
| 680         | 687  | D(35, 50)<br>E(35, 50)                     | D(45, 60)<br>E(40, 60)             | E(45, 60)<br>V(35, 40)                           |                                                         |          |                                               |                                            |                                          |                                                 |                            |
| 1000        | 108  | E(30, 40)                                  | E(60)<br>V(25, 35)                 | V(40, 50)                                        |                                                         |          |                                               |                                            |                                          |                                                 |                            |
| 1500        | 158  | D(100)<br>E(50)<br>V(30, 40)               | E(50, 75)<br>V(50, 75)             |                                                  |                                                         |          |                                               |                                            |                                          |                                                 |                            |

Available Ratings: ESR limits quoted in brackets (mOhms)

Notes: Voltage ratings are minimum values. AVX reserves the right to supply higher ratings in the same case size, to the same reliability standards.

| RATING & PART<br>NUMBER REFERENCE |           |      | Parametric Specifications by Rating per MIL-PRF-55365/4 |           |              |       |       |        |       |         |       |       | Typical Power Dissipation Data by Rating |       |                  |        |        |       |       |    |       |    |      |    |      |    |       |    |    |
|-----------------------------------|-----------|------|---------------------------------------------------------|-----------|--------------|-------|-------|--------|-------|---------|-------|-------|------------------------------------------|-------|------------------|--------|--------|-------|-------|----|-------|----|------|----|------|----|-------|----|----|
|                                   |           |      | DC Rated Voltage                                        |           |              |       |       | ESR    |       | DCL max |       |       | DF Max                                   |       | Power Disipation |        | 25°C   |       | 85°C  |    | 125°C |    | 25°C |    | 85°C |    | 125°C |    |    |
|                                   |           |      | Cap @ 120Hz                                             | V @ +85°C | Ohms @ +25°C | +25°C | +85°C | +125°C | +25°C | (%)     | (%)   | (%)   | (%)                                      | (%)   | A                | A      | A      | A     | A     | A  | A     | A  | V    | V  | V    | V  | V     | V  | V  |
| AVX                               | COTS-Plus | P/N  | Case                                                    | µF        | µA           | µA    | µA    | µA     | µA    | µA      | µA    | µA    | µA                                       | µA    | µA               | µA     | µA     | µA    | µA    | µA | µA    | µA | µA   | µA | µA   | µA | µA    | µA | µA |
| TB1B157*002L#00++                 | B         | 150  | 2                                                       | 0.15      | 3            | 30    | 60    | 10     | 12    | 14      | 0.085 | 0.753 | 0.677                                    | 0.301 | 0.113            | 0.102  | 0.117  | 0.052 | 0.045 |    |       |    |      |    |      |    |       |    |    |
| TB1B227*002C#00++                 | B         | 220  | 2                                                       | 0.2       | 4.4          | 44    | 88    | 16     | 19    | 21      | 0.085 | 0.652 | 0.587                                    | 0.261 | 0.113            | 0.102  | 0.117  | 0.052 | 0.045 |    |       |    |      |    |      |    |       |    |    |
| TB1B227*002L#00++                 | B         | 220  | 2                                                       | 0.15      | 4.4          | 44    | 88    | 16     | 19    | 21      | 0.085 | 0.753 | 0.677                                    | 0.301 | 0.113            | 0.102  | 0.117  | 0.052 | 0.045 |    |       |    |      |    |      |    |       |    |    |
| TB1D227*002L#00++                 | D         | 220  | 2                                                       | 0.045     | 4.4          | 44    | 88    | 8      | 10    | 12      | 0.150 | 1.826 | 1.643                                    | 0.730 | 0.082            | 0.074  | 0.074  | 0.033 | 0.033 |    |       |    |      |    |      |    |       |    |    |
| TB1D47*002L#00++                  | D         | 470  | 2                                                       | 0.035     | 9.4          | 94    | 188   | 8      | 10    | 12      | 0.150 | 2.070 | 1.863                                    | 0.828 | 0.072            | 0.065  | 0.065  | 0.029 | 0.029 |    |       |    |      |    |      |    |       |    |    |
| TB1D687*002C#00++                 | D         | 680  | 2                                                       | 0.05      | 13.6         | 136   | 272   | 16     | 19    | 21      | 0.150 | 1.732 | 1.559                                    | 0.693 | 0.087            | 0.078  | 0.078  | 0.035 | 0.035 |    |       |    |      |    |      |    |       |    |    |
| TB1D687*002L#00++                 | D         | 680  | 2                                                       | 0.035     | 13.6         | 136   | 272   | 16     | 19    | 21      | 0.150 | 2.070 | 1.863                                    | 0.828 | 0.072            | 0.065  | 0.065  | 0.029 | 0.029 |    |       |    |      |    |      |    |       |    |    |
| TB1E687*002C#00++                 | E         | 680  | 2                                                       | 0.05      | 13.6         | 136   | 272   | 10     | 12    | 14      | 0.165 | 1.817 | 1.635                                    | 0.727 | 0.091            | 0.082  | 0.082  | 0.036 | 0.036 |    |       |    |      |    |      |    |       |    |    |
| TB1E687*002L#00++                 | E         | 680  | 2                                                       | 0.035     | 13.6         | 136   | 272   | 10     | 12    | 14      | 0.165 | 2.171 | 1.954                                    | 0.868 | 0.076            | 0.068  | 0.068  | 0.030 | 0.030 |    |       |    |      |    |      |    |       |    |    |
| TB1E108*002C#00++                 | E         | 1000 | 2                                                       | 0.04      | 20           | 200   | 400   | 14     | 17    | 20      | 0.165 | 2.031 | 1.828                                    | 0.812 | 0.081            | 0.073  | 0.073  | 0.032 | 0.032 |    |       |    |      |    |      |    |       |    |    |
| TB1E108*002L#00++                 | E         | 1000 | 2                                                       | 0.03      | 20           | 200   | 400   | 14     | 17    | 20      | 0.165 | 2.345 | 2.111                                    | 0.938 | 0.070            | 0.063  | 0.063  | 0.028 | 0.028 |    |       |    |      |    |      |    |       |    |    |
| TB1D158*002L#00++                 | D         | 1500 | 2                                                       | 0.1       | 30           | 300   | 600   | 60     | 90    | 100     | 0.150 | 1.225 | 1.102                                    | 0.490 | 0.122            | 0.110  | 0.110  | 0.049 | 0.049 |    |       |    |      |    |      |    |       |    |    |
| TB1E158*002L#00++                 | E         | 1500 | 2                                                       | 0.05      | 30           | 300   | 600   | 20     | 24    | 28      | 0.165 | 1.817 | 1.635                                    | 0.727 | 0.091            | 0.082  | 0.082  | 0.036 | 0.036 |    |       |    |      |    |      |    |       |    |    |
| TBVI158*002C#00++                 | V         | 1500 | 2                                                       | 0.04      | 30           | 300   | 600   | 20     | 24    | 28      | 0.250 | 2.500 | 2.250                                    | 1.000 | 0.100            | 0.090  | 0.090  | 0.040 | 0.040 |    |       |    |      |    |      |    |       |    |    |
| TBVI158*002L#00++                 | V         | 1500 | 2                                                       | 0.03      | 30           | 300   | 600   | 20     | 24    | 28      | 0.250 | 2.887 | 2.598                                    | 1.155 | 0.087            | 0.078  | 0.078  | 0.035 | 0.035 |    |       |    |      |    |      |    |       |    |    |
| TB1A225*004C#00++                 | A         | 2.2  | 4                                                       | 8         | 0.088        | 0.88  | 1.76  | 6      | 9     | 9       | 0.075 | 0.097 | 0.087                                    | 0.039 | 0.075            | 0.069  | 0.069  | 0.310 | 0.310 |    |       |    |      |    |      |    |       |    |    |
| TB1A475*004C#00++                 | A         | 4.7  | 4                                                       | 8         | 0.188        | 1.88  | 3.76  | 6      | 9     | 9       | 0.075 | 0.097 | 0.087                                    | 0.039 | 0.075            | 0.069  | 0.069  | 0.310 | 0.310 |    |       |    |      |    |      |    |       |    |    |
| TB1A685*004C#00++                 | A         | 6.8  | 4                                                       | 6.5       | 0.272        | 2.72  | 5.44  | 6      | 9     | 10      | 0.075 | 0.107 | 0.097                                    | 0.043 | 0.068            | 0.068  | 0.068  | 0.279 | 0.279 |    |       |    |      |    |      |    |       |    |    |
| TB1B685*004C#00++                 | B         | 6.8  | 4                                                       | 5.5       | 0.272        | 2.72  | 5.44  | 6      | 9     | 10      | 0.085 | 0.124 | 0.112                                    | 0.050 | 0.084            | 0.084  | 0.084  | 0.273 | 0.273 |    |       |    |      |    |      |    |       |    |    |
| TB1A106*004C#00++                 | A         | 10   | 4                                                       | 6         | 0.4          | 4     | 8     | 6      | 9     | 10      | 0.075 | 0.112 | 0.101                                    | 0.045 | 0.067            | 0.067  | 0.067  | 0.268 | 0.268 |    |       |    |      |    |      |    |       |    |    |
| TB1B106*004C#00++                 | B         | 10   | 4                                                       | 4         | 0.4          | 4     | 8     | 6      | 9     | 10      | 0.085 | 0.146 | 0.131                                    | 0.058 | 0.083            | 0.083  | 0.083  | 0.233 | 0.233 |    |       |    |      |    |      |    |       |    |    |
| TB1A156*004C#00++                 | A         | 15   | 4                                                       | 4         | 0.6          | 6     | 12    | 6      | 9     | 10      | 0.075 | 0.137 | 0.123                                    | 0.055 | 0.084            | 0.084  | 0.084  | 0.219 | 0.219 |    |       |    |      |    |      |    |       |    |    |
| TB1B156*004C#00++                 | B         | 15   | 4                                                       | 3.5       | 0.6          | 6     | 12    | 6      | 9     | 10      | 0.085 | 0.156 | 0.140                                    | 0.062 | 0.084            | 0.084  | 0.084  | 0.218 | 0.218 |    |       |    |      |    |      |    |       |    |    |
| TB1A226*004C#00++                 | A         | 22   | 4                                                       | 3.5       | 0.88         | 8.8   | 17.6  | 6      | 9     | 10      | 0.075 | 0.146 | 0.132                                    | 0.059 | 0.0512           | 0.0512 | 0.0512 | 0.205 | 0.205 |    |       |    |      |    |      |    |       |    |    |
| TB1A336*004C#00++                 | A         | 33   | 4                                                       | 3         | 1.32         | 13.2  | 26.4  | 6      | 9     | 10      | 0.075 | 0.158 | 0.142                                    | 0.063 | 0.0474           | 0.0474 | 0.0474 | 0.190 | 0.190 |    |       |    |      |    |      |    |       |    |    |
| TB1B336*004C#00++                 | B         | 33   | 4                                                       | 2.8       | 1.32         | 13.2  | 26.4  | 6      | 9     | 10      | 0.085 | 0.174 | 0.157                                    | 0.070 | 0.0488           | 0.0488 | 0.0488 | 0.195 | 0.195 |    |       |    |      |    |      |    |       |    |    |
| TB1C336*004C#00++                 | C         | 33   | 4                                                       | 2.2       | 1.32         | 13.2  | 26.4  | 6      | 9     | 10      | 0.110 | 0.224 | 0.201                                    | 0.089 | 0.0492           | 0.0443 | 0.0443 | 0.197 | 0.197 |    |       |    |      |    |      |    |       |    |    |
| TB1A476*004L#00++                 | A         | 47   | 4                                                       | 0.5       | 1.88         | 18.8  | 37.6  | 8      | 10    | 12      | 0.075 | 0.387 | 0.349                                    | 0.155 | 0.194            | 0.174  | 0.174  | 0.077 | 0.077 |    |       |    |      |    |      |    |       |    |    |
| TB1B476*004C#00++                 | B         | 47   | 4                                                       | 2.4       | 1.88         | 18.8  | 37.6  | 6      | 9     | 10      | 0.085 | 0.188 | 0.169                                    | 0.075 | 0.0452           | 0.0406 | 0.0406 | 0.181 | 0.181 |    |       |    |      |    |      |    |       |    |    |
| TB1C686*004C#00++                 | C         | 68   | 4                                                       | 1.6       | 2.72         | 27.2  | 54.4  | 6      | 9     | 10      | 0.110 | 0.262 | 0.236                                    | 0.105 | 0.0420           | 0.0378 | 0.0378 | 0.168 | 0.168 |    |       |    |      |    |      |    |       |    |    |
| TB1D686*004C#00++                 | D         | 68   | 4                                                       | 1.1       | 2.72         | 27.2  | 54.4  | 6      | 9     | 10      | 0.150 | 0.369 | 0.332                                    | 0.148 | 0.0406           | 0.0366 | 0.0366 | 0.162 | 0.162 |    |       |    |      |    |      |    |       |    |    |
| TB1A107*004C#00++                 | A         | 100  | 4                                                       | 1.4       | 4            | 40    | 80    | 30     | 36    | 42      | 0.075 | 0.231 | 0.208                                    | 0.093 | 0.0324           | 0.0292 | 0.0292 | 0.130 | 0.130 |    |       |    |      |    |      |    |       |    |    |
| TB1B107*004C#00++                 | B         | 100  | 4                                                       | 1.6       | 4            | 40    | 80    | 8      | 10    | 12      | 0.085 | 0.230 | 0.207                                    | 0.092 | 0.0369           | 0.0332 | 0.0332 | 0.148 | 0.148 |    |       |    |      |    |      |    |       |    |    |
| TB1C107*004L#00++                 | C         | 100  | 4                                                       | 0.2       | 4            | 40    | 80    | 8      | 10    | 12      | 0.085 | 0.652 | 0.587                                    | 0.261 | 0.130            | 0.117  | 0.117  | 0.052 | 0.052 |    |       |    |      |    |      |    |       |    |    |
| TB1C107*004C#00++                 | C         | 100  | 4                                                       | 1.3       | 4            | 40    | 80    | 6      | 9     | 10      | 0.110 | 0.291 | 0.262                                    | 0.116 | 0.0378           | 0.0340 | 0.0340 | 0.151 | 0.151 |    |       |    |      |    |      |    |       |    |    |
| TB1B157*004L#00++                 | B         | 150  | 4                                                       | 0.25      | 6            | 60    | 120   | 10     | 12    | 14      | 0.085 | 0.583 | 0.525                                    | 0.233 | 0.146            | 0.131  | 0.131  | 0.058 | 0.058 |    |       |    |      |    |      |    |       |    |    |
| TB1C157*004C#00++                 | C         | 150  | 4                                                       | 0.08      | 6            | 60    | 120   | 6      | 9     | 10      | 0.110 | 1.173 | 1.055                                    | 0.469 | 0.094            | 0.084  | 0.084  | 0.038 | 0.038 |    |       |    |      |    |      |    |       |    |    |
| TB1C157*004L#00++                 | C         | 150  | 4                                                       | 0.07      | 6            | 60    | 120   | 6      | 9     | 10      | 0.110 | 1.254 | 1.128                                    | 0.501 | 0.088            | 0.079  | 0.079  | 0.035 | 0.035 |    |       |    |      |    |      |    |       |    |    |
| TB1D227*004C#00++                 | D         | 220  | 4                                                       | 0.9       | 8.8          | 88    | 176   | 8      | 10    | 12      | 0.150 | 0.408 | 0.367                                    | 0.163 | 0.0367           | 0.0331 | 0.0331 | 0.147 | 0.147 |    |       |    |      |    |      |    |       |    |    |
| TB1D227*004L#00++                 | D         | 220  | 4                                                       | 0.04      | 8.8          | 88    | 176   | 8      | 10    | 12      | 0.150 | 1.936 | 1.743                                    | 0.775 | 0.077            | 0.070  | 0.070  | 0.031 | 0.031 |    |       |    |      |    |      |    |       |    |    |
| TB1C337*004L#00++                 | C         | 330  | 4                                                       | 0.1       | 13.2         | 132   | 264   | 8      | 10    | 12      | 0.110 | 1.049 | 0.944                                    | 0.420 | 0.105            | 0.094  | 0.094  | 0.042 | 0.042 |    |       |    |      |    |      |    |       |    |    |
| TB1D337*004C#00++                 | D         | 330  | 4                                                       | 0.045     | 13.2         | 132   | 264   | 8      | 10    | 12      | 0.150 | 1.826 | 1.643                                    | 0.730 | 0.082            | 0.074  | 0.074  | 0.033 | 0.033 |    |       |    |      |    |      |    |       |    |    |
| TB1D337*004L#00++                 | D         | 330  | 4                                                       | 0.035     | 13.2         | 132   | 264   | 8      | 10    | 12      | 0.150 | 2.070 | 1.863                                    | 0.828 | 0.072            | 0.065  | 0.065  | 0.029 | 0.029 |    |       |    |      |    |      |    |       |    |    |
| TB1E337*004C#00++                 | E         | 330  | 4                                                       | 0.9       | 13.2         | 132   | 264   | 8      | 10    | 12      | 0.165 | 0.428 | 0.385                                    | 0.171 | 0.0385           | 0.0347 | 0      |       |       |    |       |    |      |    |      |    |       |    |    |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at

| RATING & PART<br>NUMBER REFERENCE |      | Parametric Specifications by Rating per MIL-PRF-55365/4 |                     |                 |         |       |       |        |       |                        |       | Typical Power Dissipation Data by Rating |                        |                        |                         |                        |                        |                         |           |           |            |
|-----------------------------------|------|---------------------------------------------------------|---------------------|-----------------|---------|-------|-------|--------|-------|------------------------|-------|------------------------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|-----------|-----------|------------|
|                                   |      | Cap<br>@ 120Hz                                          | DC Rated<br>Voltage | ESR<br>@ 100kHz | DCL max | +25°C | +85°C | +125°C | +25°C | DF Max<br>+ (85/125)°C | -55°C | Power<br>Dissipation                     | 25°C<br>Ripple Current | 85°C<br>Ripple Current | 125°C<br>Ripple Current | 25°C<br>Ripple Voltage | 85°C<br>Ripple Voltage | 125°C<br>Ripple Voltage | 25°C<br>V | 85°C<br>V | 125°C<br>V |
| AVX COTS-Plus P/N                 | Case | µF                                                      | @ +85°C             | Ohms            | (µA)    | (µA)  | (µA)  | (µA)   | (%)   | (%)                    | (%)   | W                                        | (100kHz)               | (100kHz)               | (100kHz)                | (100kHz)               | (100kHz)               | (100kHz)                | (100kHz)  | (100kHz)  | (100kHz)   |
| TBJA158*004C□#00++                | V    | 1500                                                    | 4                   | 0.075           | 60      | 600   | 1200  | 1200   | 30    | 36                     | 42    | 0.250                                    | 1.826                  | 1.643                  | 0.730                   | 0.137                  | 0.123                  | 0.055                   | 0.101     | 0.101     | 0.045      |
| TBJA158*004L□#00++                | V    | 1500                                                    | 4                   | 0.05            | 60      | 600   | 1200  | 1200   | 30    | 36                     | 42    | 0.250                                    | 2.236                  | 2.012                  | 0.894                   | 0.112                  | 0.101                  | 0.045                   | 0.101     | 0.101     | 0.045      |
| TBJA155*006C□#00++                | A    | 1.5                                                     | 6                   | 8               | 0.09    | 0.9   | 1.08  | 1.08   | 6     | 9                      | 9     | 0.075                                    | 0.097                  | 0.087                  | 0.039                   | 0.075                  | 0.069                  | 0.310                   | 0.097     | 0.097     | 0.310      |
| TBJA225*006C□#00++                | A    | 2.2                                                     | 6                   | 8               | 0.132   | 1.32  | 1.584 | 1.584  | 6     | 9                      | 9     | 0.075                                    | 0.097                  | 0.087                  | 0.039                   | 0.075                  | 0.069                  | 0.310                   | 0.097     | 0.097     | 0.310      |
| TBJA335*006C□#00++                | A    | 3.3                                                     | 6                   | 8               | 0.198   | 1.98  | 2.376 | 2.376  | 6     | 9                      | 9     | 0.075                                    | 0.097                  | 0.087                  | 0.039                   | 0.075                  | 0.069                  | 0.310                   | 0.097     | 0.097     | 0.310      |
| TBJA475*006C□#00++                | A    | 4.7                                                     | 6                   | 6               | 0.282   | 2.82  | 3.384 | 3.384  | 6     | 9                      | 10    | 0.075                                    | 0.112                  | 0.101                  | 0.045                   | 0.064                  | 0.064                  | 0.268                   | 0.064     | 0.064     | 0.268      |
| TBJA75*006C□#00++                 | B    | 4.7                                                     | 6                   | 5.5             | 0.282   | 2.82  | 3.384 | 3.384  | 6     | 9                      | 9     | 0.085                                    | 0.124                  | 0.112                  | 0.050                   | 0.084                  | 0.084                  | 0.273                   | 0.084     | 0.084     | 0.273      |
| TBJA685*006C□#00++                | A    | 6.8                                                     | 6                   | 5               | 0.408   | 4.08  | 8.16  | 8.16   | 6     | 9                      | 10    | 0.075                                    | 0.122                  | 0.110                  | 0.049                   | 0.0612                 | 0.0612                 | 0.245                   | 0.0612    | 0.0612    | 0.245      |
| TBJA685*006L□#00++                | A    | 6.8                                                     | 6                   | 1.8             | 0.408   | 4.08  | 8.16  | 8.16   | 6     | 9                      | 10    | 0.075                                    | 0.204                  | 0.184                  | 0.082                   | 0.067                  | 0.067                  | 0.147                   | 0.067     | 0.067     | 0.147      |
| TBJB685*006C□#00++                | B    | 6.8                                                     | 6                   | 4.5             | 0.408   | 4.08  | 8.16  | 8.16   | 6     | 9                      | 9     | 0.085                                    | 0.137                  | 0.124                  | 0.055                   | 0.0618                 | 0.0618                 | 0.247                   | 0.0618    | 0.0618    | 0.247      |
| TBJA106*006C□#00++                | A    | 10                                                      | 6                   | 4               | 0.6     | 6     | 12    | 12     | 6     | 9                      | 10    | 0.075                                    | 0.137                  | 0.123                  | 0.055                   | 0.0548                 | 0.0548                 | 0.219                   | 0.0548    | 0.0548    | 0.219      |
| TBJA106*006L□#00++                | A    | 10                                                      | 6                   | 1.5             | 0.6     | 6     | 12    | 12     | 6     | 9                      | 10    | 0.075                                    | 0.224                  | 0.201                  | 0.089                   | 0.0335                 | 0.0335                 | 0.134                   | 0.0335    | 0.0335    | 0.134      |
| TBJB106*006C□#00++                | B    | 10                                                      | 6                   | 3.5             | 0.6     | 6     | 7.2   | 7.2    | 6     | 9                      | 9     | 0.085                                    | 0.156                  | 0.140                  | 0.062                   | 0.0545                 | 0.0545                 | 0.218                   | 0.0545    | 0.0545    | 0.218      |
| TBJA156*006C□#00++                | A    | 15                                                      | 6                   | 3.5             | 0.9     | 9     | 18    | 18     | 6     | 9                      | 10    | 0.075                                    | 0.146                  | 0.132                  | 0.059                   | 0.0512                 | 0.0512                 | 0.205                   | 0.0512    | 0.0512    | 0.205      |
| TBJA156*006L□#00++                | A    | 15                                                      | 6                   | 1.5             | 0.9     | 9     | 18    | 18     | 6     | 9                      | 10    | 0.075                                    | 0.224                  | 0.201                  | 0.089                   | 0.0335                 | 0.0335                 | 0.134                   | 0.0335    | 0.0335    | 0.134      |
| TBJB156*006C□#00++                | B    | 15                                                      | 6                   | 3.5             | 0.225   | 2.25  | 4.5   | 4.5    | 6     | 9                      | 10    | 0.085                                    | 0.156                  | 0.140                  | 0.062                   | 0.0545                 | 0.0545                 | 0.218                   | 0.0545    | 0.0545    | 0.218      |
| TBJC156*006C□#00++                | C    | 15                                                      | 6                   | 3               | 0.9     | 9     | 10.8  | 10.8   | 6     | 9                      | 9     | 0.110                                    | 0.191                  | 0.172                  | 0.077                   | 0.0574                 | 0.0574                 | 0.230                   | 0.0574    | 0.0574    | 0.230      |
| TBJA225*006C□#00++                | A    | 22                                                      | 6                   | 3               | 1.32    | 13.2  | 26.4  | 26.4   | 6     | 9                      | 10    | 0.075                                    | 0.158                  | 0.142                  | 0.063                   | 0.0474                 | 0.0474                 | 0.190                   | 0.0474    | 0.0474    | 0.190      |
| TBJA225*006L□#00++                | A    | 22                                                      | 6                   | 0.5             | 1.32    | 13.2  | 26.4  | 26.4   | 6     | 9                      | 10    | 0.075                                    | 0.387                  | 0.349                  | 0.155                   | 0.194                  | 0.174                  | 0.077                   | 0.194     | 0.174     | 0.077      |
| TBJB225*006C□#00++                | B    | 22                                                      | 6                   | 2.5             | 1.32    | 13.2  | 26.4  | 26.4   | 6     | 9                      | 10    | 0.085                                    | 0.184                  | 0.166                  | 0.074                   | 0.0461                 | 0.0461                 | 0.184                   | 0.0461    | 0.0461    | 0.184      |
| TBJB225*006L□#00++                | B    | 22                                                      | 6                   | 0.375           | 1.32    | 13.2  | 26.4  | 26.4   | 6     | 9                      | 10    | 0.085                                    | 0.476                  | 0.428                  | 0.179                   | 0.179                  | 0.161                  | 0.071                   | 0.179     | 0.161     | 0.071      |
| TBJC225*006C□#00++                | C    | 22                                                      | 6                   | 2.2             | 1.32    | 13.2  | 26.4  | 26.4   | 6     | 9                      | 9     | 0.110                                    | 0.224                  | 0.201                  | 0.089                   | 0.0492                 | 0.0492                 | 0.197                   | 0.0492    | 0.0492    | 0.197      |
| TBJA335*006L□#00++                | A    | 33                                                      | 6                   | 0.6             | 1.98    | 19.8  | 39.6  | 39.6   | 8     | 10                     | 12    | 0.075                                    | 0.354                  | 0.318                  | 0.141                   | 0.212                  | 0.191                  | 0.085                   | 0.212     | 0.191     | 0.085      |
| TBJB335*006C□#00++                | B    | 33                                                      | 6                   | 2.2             | 1.98    | 19.8  | 39.6  | 39.6   | 6     | 9                      | 10    | 0.085                                    | 0.197                  | 0.177                  | 0.079                   | 0.0432                 | 0.0432                 | 0.173                   | 0.0432    | 0.0432    | 0.173      |
| TBJB335*006L□#00++                | B    | 33                                                      | 6                   | 0.6             | 1.98    | 19.8  | 39.6  | 39.6   | 6     | 9                      | 10    | 0.085                                    | 0.376                  | 0.339                  | 0.151                   | 0.226                  | 0.203                  | 0.090                   | 0.226     | 0.203     | 0.090      |
| TBJC335*006C□#00++                | C    | 33                                                      | 6                   | 1.8             | 1.98    | 19.8  | 39.6  | 39.6   | 6     | 9                      | 10    | 0.110                                    | 0.247                  | 0.222                  | 0.099                   | 0.0445                 | 0.0445                 | 0.178                   | 0.0445    | 0.0445    | 0.178      |
| TBJA475*006L□#00++                | A    | 47                                                      | 6                   | 0.8             | 2.82    | 28.2  | 56.4  | 56.4   | 10    | 12                     | 14    | 0.075                                    | 0.306                  | 0.276                  | 0.122                   | 0.245                  | 0.220                  | 0.098                   | 0.245     | 0.220     | 0.098      |
| TBJB475*006C□#00++                | B    | 47                                                      | 6                   | 0.35            | 2.82    | 28.2  | 56.4  | 56.4   | 6     | 9                      | 10    | 0.085                                    | 0.493                  | 0.444                  | 0.197                   | 0.172                  | 0.155                  | 0.069                   | 0.172     | 0.155     | 0.069      |
| TBJB475*006L□#00++                | B    | 47                                                      | 6                   | 0.25            | 2.82    | 28.2  | 56.4  | 56.4   | 6     | 9                      | 10    | 0.085                                    | 0.583                  | 0.525                  | 0.233                   | 0.146                  | 0.131                  | 0.058                   | 0.146     | 0.131     | 0.058      |
| TBJC475*006C□#00++                | C    | 47                                                      | 6                   | 1.6             | 2.82    | 28.2  | 56.4  | 56.4   | 6     | 9                      | 10    | 0.110                                    | 0.262                  | 0.236                  | 0.105                   | 0.420                  | 0.378                  | 0.168                   | 0.420     | 0.378     | 0.168      |
| TBJC475*006L□#00++                | C    | 47                                                      | 6                   | 0.3             | 2.82    | 28.2  | 56.4  | 56.4   | 6     | 9                      | 10    | 0.110                                    | 0.606                  | 0.545                  | 0.242                   | 0.182                  | 0.163                  | 0.073                   | 0.182     | 0.163     | 0.073      |
| TBJD475*006C□#00++                | D    | 47                                                      | 6                   | 1.1             | 2.82    | 28.2  | 33.84 | 33.84  | 6     | 9                      | 9     | 0.150                                    | 0.369                  | 0.332                  | 0.148                   | 0.406                  | 0.366                  | 0.162                   | 0.406     | 0.366     | 0.162      |
| TBJB685*006C□#00++                | B    | 68                                                      | 6                   | 1.8             | 4.08    | 40.8  | 81.6  | 81.6   | 8     | 10                     | 12    | 0.085                                    | 0.217                  | 0.196                  | 0.087                   | 0.0391                 | 0.0391                 | 0.156                   | 0.0391    | 0.0391    | 0.156      |
| TBJB685*006L□#00++                | B    | 68                                                      | 6                   | 0.25            | 4.08    | 40.8  | 81.6  | 81.6   | 8     | 10                     | 10    | 0.085                                    | 0.523                  | 0.525                  | 0.233                   | 0.146                  | 0.131                  | 0.058                   | 0.146     | 0.131     | 0.058      |
| TBJC685*006C□#00++                | C    | 68                                                      | 6                   | 1.6             | 4.08    | 40.8  | 81.6  | 81.6   | 6     | 9                      | 10    | 0.110                                    | 0.282                  | 0.256                  | 0.105                   | 0.420                  | 0.378                  | 0.168                   | 0.420     | 0.378     | 0.168      |
| TBJC685*006L□#00++                | C    | 68                                                      | 6                   | 0.15            | 4.08    | 40.8  | 81.6  | 81.6   | 6     | 9                      | 10    | 0.110                                    | 0.606                  | 0.545                  | 0.242                   | 0.182                  | 0.163                  | 0.073                   | 0.182     | 0.163     | 0.073      |
| TBJD685*006C□#00++                | D    | 68                                                      | 6                   | 0.9             | 4.08    | 40.8  | 48.96 | 48.96  | 6     | 9                      | 9     | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJB107*006C□#00++                | B    | 100                                                     | 6                   | 0.4             | 6       | 60    | 120   | 120    | 10    | 12                     | 14    | 0.085                                    | 0.461                  | 0.415                  | 0.184                   | 0.184                  | 0.166                  | 0.074                   | 0.184     | 0.166     | 0.074      |
| TBJB107*006L□#00++                | B    | 100                                                     | 6                   | 0.25            | 6       | 60    | 120   | 120    | 10    | 12                     | 14    | 0.085                                    | 0.583                  | 0.525                  | 0.233                   | 0.146                  | 0.131                  | 0.058                   | 0.146     | 0.131     | 0.058      |
| TBJC107*006C□#00++                | C    | 100                                                     | 6                   | 0.9             | 6       | 60    | 120   | 120    | 6     | 9                      | 10    | 0.110                                    | 0.350                  | 0.315                  | 0.140                   | 0.315                  | 0.283                  | 0.126                   | 0.315     | 0.283     | 0.126      |
| TBJC107*006L□#00++                | C    | 100                                                     | 6                   | 0.15            | 6       | 60    | 120   | 120    | 6     | 9                      | 10    | 0.110                                    | 0.856                  | 0.771                  | 0.343                   | 0.128                  | 0.116                  | 0.051                   | 0.128     | 0.116     | 0.051      |
| TBJD107*006C□#00++                | D    | 100                                                     | 6                   | 0.9             | 6       | 60    | 120   | 120    | 6     | 9                      | 10    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJC157*006C□#00++                | C    | 150                                                     | 6                   | 0.09            | 9       | 90    | 180   | 180    | 6     | 9                      | 10    | 0.110                                    | 1.106                  | 0.995                  | 0.442                   | 0.099                  | 0.090                  | 0.040                   | 0.099     | 0.090     | 0.040      |
| TBJC157*006L□#00++                | C    | 150                                                     | 6                   | 0.05            | 9       | 90    | 180   | 180    | 6     | 9                      | 10    | 0.110                                    | 1.483                  | 1.335                  | 0.593                   | 0.074                  | 0.067                  | 0.030                   | 0.074     | 0.067     | 0.030      |
| TBJD157*006C□#00++                | D    | 150                                                     | 6                   | 0.9             | 9       | 90    | 180   | 180    | 6     | 9                      | 10    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJD157*006L□#00++                | D    | 150                                                     | 6                   | 0.05            | 9       | 90    | 180   | 180    | 6     | 9                      | 10    | 0.150                                    | 1.732                  | 1.559                  | 0.693                   | 0.087                  | 0.078                  | 0.035                   | 0.087     | 0.078     | 0.035      |
| TBJC227*006C□#00++                | C    | 220                                                     | 6                   | 1.2             | 13.2    | 132   | 264   | 264    | 10    | 12                     | 14    | 0.110                                    | 0.303                  | 0.272                  | 0.121                   | 0.363                  | 0.327                  | 0.145                   | 0.363     | 0.327     | 0.145      |
| TBJC227*006L□#00++                | C    | 220                                                     | 6                   | 0.07            | 13.2    | 132   | 264   | 264    | 8     | 10                     | 12    | 0.110                                    | 1.254                  | 1.128                  | 0.501                   | 0.088                  | 0.079                  | 0.035                   | 0.088     | 0.079     | 0.035      |
| TBJD227*006C□#00++                | D    | 220                                                     | 6                   | 0.9             | 13.2    | 132   | 264   | 264    | 8     | 10                     | 12    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJD227*006L□#00++                | D    | 220                                                     | 6                   | 0.1             | 13.2    | 132   | 264   | 264    | 8     | 10                     | 12    | 0.150                                    | 1.225                  | 1.102                  | 0.490                   | 0.122                  | 0.110                  | 0.049                   | 0.122     | 0.110     | 0.049      |
| TBJE227*006L□#00++                | E    | 220                                                     | 6                   | 0.1             | 13.2    | 132   | 264   | 264    | 8     | 10                     | 12    | 0.165                                    | 1.156                  | 1.022                  | 0.490                   | 0.122                  | 0.110                  | 0.049                   | 0.122     | 0.110     | 0.049      |
| TBJD337*006C□#00++                | D    | 330                                                     | 6                   | 0.05            | 19.8    | 198   | 396   | 396    | 8     | 10                     | 12    | 0.150                                    | 1.732                  | 1.559                  | 0.693                   | 0.087                  | 0.078                  | 0.035                   | 0.087     | 0.078     | 0.035      |
| TBJD337*006L□#00++                | D    | 330                                                     | 6                   | 0.045           | 19.8    | 198   | 396   | 396    | 8     | 10                     | 12    | 0.150                                    | 1.826                  | 1.643                  | 0.730                   | 0.082                  | 0.074                  | 0.033                   | 0.082     | 0.074     | 0.033      |
| TBJE337*006C□#00++                | E    | 330                                                     | 6                   | 0.9             | 19.8    | 198   | 396   | 396    | 8     | 10                     | 12    | 0.165                                    | 0.428                  | 0.385                  | 0.171                   | 0.385                  | 0.347                  | 0.154                   | 0.385     | 0.347     | 0.154      |
| TBJE337*006L□#00++                | E    | 330                                                     | 6                   | 0.1             | 19.8    | 198   | 396   | 396    | 8     | 10                     | 12    | 0.165                                    | 1.285                  | 1.156                  | 0.514                   | 0.128                  | 0.116                  | 0.051                   | 0.128     | 0.116     | 0.051      |
| TBJV337*006L□#00++                | V    | 330                                                     | 6                   | 0.1             | 19.8    | 198   | 396   | 396    | 8     | 10                     | 12    | 0.250                                    | 1.581                  | 1.423                  | 0.632                   | 0.158                  | 0.142                  | 0.063                   | 0.158     | 0.142     | 0.063      |

All technical data relates to an ambient temperature of +25°C.

| RATING & PART<br>NUMBER REFERENCE |               | Parametric Specifications by Rating per MIL-PRF-55365/4 |                    |        |     |         |                 |       |         |        |      | Typical Power Dissipation Data by Rating |     |           |       |       |       |                      |       |       |                |                    |      |                |   |       |                |     |      |                |    |       |                |       |       |                |       |       |       |       |                    |   |     |   |     |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |      |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |     |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |       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   |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |     |    |     |    |     |     |     |   |    |    |       |       | 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|                                   |               | DC Rated Voltage                                        |                    |        |     |         | ESR             |       | DCL max |        |      | DF Max                                   |     |           |       |       | Power |                      |       |       |                | 25°C               |      |                |   |       | 85°C           |     |      |                |    | 125°C |                |       |       |                |       |       |       |       |                    |   |     |   |     |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |      |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |     |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |       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 |                     |   |     |    |     |      |     |     |      |   |   |   |       |       |       |       |       |       |       |                     |   |     |    |   |      |     |     |      |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |      |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |      |   |   |   |       |       |       |       |       |       |       |                     |   |    |    |   |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |   |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |   |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |            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    |       |       |       |       |       |                     |   |    |    |     |     |    |    |      |   |   |   |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |      |   |   |   |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |     |    |     |    |     |     |     |   |    |    |       |       |       |       |       |       |       |
|                                   |               | Cap<br>@ 120Hz                                          | μF                 | @ 25°C | V   | @ +85°C | Ohms<br>@ +25°C | +25°C | (μA)    | +125°C | (μA) | +25°C                                    | (%) | +85/125°C | (%)   | -55°C | (%)   | Power<br>Dissipation | W     | A     | Ripple Current | A                  | 85°C | Ripple Current | A | 125°C | Ripple Current | A   | 25°C | Ripple Voltage | V  | 85°C  | Ripple Voltage | V     | 125°C | Ripple Voltage | V     |       |       |       |                    |   |     |   |     |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |      |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |     |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |       |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |      |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |       |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |      |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |     |   |       |     |     |     |     |    |    |    |       |       |       |       |       |       |       |                    |   |      |   |      |     |     |     |      |    |    |    |       |       |       |       |       |       |       |                    |   |      |   |      |     |     |     |      |    |    |    |       |       |       |       |       |       |       |                     |   |   |    |    |     |   |   |     |   |   |   |       |       |       |       |       |       |       |                     |   |     |    |   |      |     |     |     |   |   |   |       |       |       |       |       |       |       |                     |   |     |    |   |      |     |     |      |   |   |   |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |     |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |     |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |      |   |   |   |       |       |       |       |       |       |       |                     |   |     |    |   |      |     |     |     |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |     |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |      |   |   |   |       |       |       |       |       |       |       |                     |   |     |    |   |      |     |     |      |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |      |   |   |    |       |       |       |       |       |       |       |                     |   |     |    |     |      |     |     |      |   |   |   |       |       |       |       |       |       |       |                     |   |    |    |   |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |   |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |   |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |   |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |   |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |      |   |   |   |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |      |   |   |   |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |    |   |   |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |      |     |    |    |     |   |    |    |       |       |       |       |       |       |       |                     |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |    |    |     |     |    |    |     |   |   |    |       |       |       |       |       |       |       |                    |   |     |    |     |    |     |     |     |   |    |    |       |       |       |       |       |       |       |
| AVX                               | COTS-Plus P/N | Case                                                    | TBJD477006CJ#000++ | D      | 470 | 6       | 0.06            | 282   | 282     | 282    | 564  | 12                                       | 14  | 16        | 0.150 | 1.381 | 1.423 | 0.632                | 0.095 | 0.085 | 0.038          | TBJD477006LJ#000++ | D    | 470            | 6 | 0.045 | 282            | 282 | 282  | 564            | 12 | 14    | 16             | 0.150 | 1.826 | 1.643          | 0.730 | 0.082 | 0.074 | 0.033 | TBJE477006CJ#000++ | E | 470 | 6 | 0.9 | 282 | 282 | 282 | 564 | 10 | 12 | 14 | 0.165 | 0.428 | 0.385 | 0.171 | 0.091 | 0.082 | 0.154 | TBJE477006LJ#000++ | E | 470 | 6 | 0.05 | 282 | 282 | 282 | 564 | 10 | 12 | 14 | 0.165 | 1.817 | 1.635 | 0.727 | 0.091 | 0.082 | 0.036 | TBJV477006CJ#000++ | V | 470 | 6 | 0.1 | 282 | 282 | 282 | 564 | 10 | 12 | 12 | 0.250 | 1.581 | 1.423 | 0.632 | 0.158 | 0.142 | 0.063 | TBJV477006LJ#000++ | V | 470 | 6 | 0.055 | 282 | 282 | 282 | 564 | 10 | 12 | 14 | 0.250 | 2.132 | 1.919 | 0.853 | 0.117 | 0.106 | 0.047 | TBJE877006CJ#000++ | E | 680 | 6 | 0.06 | 408 | 408 | 408 | 816 | 10 | 12 | 14 | 0.165 | 1.658 | 1.492 | 0.663 | 0.099 | 0.090 | 0.040 | TBJE877006LJ#000++ | E | 680 | 6 | 0.045 | 408 | 408 | 408 | 816 | 10 | 12 | 14 | 0.165 | 1.915 | 1.723 | 0.766 | 0.086 | 0.078 | 0.034 | TBMV877006CJ#000++ | V | 680 | 6 | 0.04 | 408 | 408 | 408 | 816 | 10 | 12 | 14 | 0.250 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 | TBMV877006LJ#000++ | V | 680 | 6 | 0.035 | 408 | 408 | 408 | 816 | 14 | 17 | 20 | 0.250 | 2.673 | 2.405 | 1.069 | 0.094 | 0.084 | 0.037 | TBVI087006CJ#000++ | V | 1000 | 6 | 0.05 | 600 | 600 | 600 | 1200 | 16 | 19 | 21 | 0.250 | 2.236 | 2.012 | 0.894 | 0.112 | 0.101 | 0.045 | TBVI087006LJ#000++ | V | 1000 | 6 | 0.04 | 600 | 600 | 600 | 1200 | 16 | 19 | 21 | 0.250 | 2.500 | 2.250 | 1.000 | 0.100 | 0.090 | 0.040 | TBJA1057010CJ#000++ | A | 1 | 10 | 10 | 0.1 | 1 | 1 | 1.2 | 4 | 6 | 6 | 0.075 | 0.087 | 0.078 | 0.035 | 0.066 | 0.079 | 0.346 | TBJA1557010CJ#000++ | A | 1.5 | 10 | 8 | 0.15 | 1.5 | 1.5 | 1.8 | 6 | 6 | 9 | 0.075 | 0.097 | 0.087 | 0.039 | 0.075 | 0.097 | 0.310 | TBJA2257010CJ#000++ | A | 2.2 | 10 | 8 | 0.22 | 2.2 | 2.2 | 2.64 | 6 | 9 | 9 | 0.075 | 0.097 | 0.087 | 0.039 | 0.075 | 0.097 | 0.310 | TBJA2257010LJ#000++ | A | 2.2 | 10 | 1.8 | 0.22 | 2.2 | 2.2 | 4.4 | 6 | 9 | 10 | 0.075 | 0.204 | 0.184 | 0.082 | 0.367 | 0.331 | 0.147 | TBJA3357010CJ#000++ | A | 3.3 | 10 | 5.5 | 0.33 | 3.3 | 3.3 | 6.6 | 6 | 9 | 10 | 0.075 | 0.117 | 0.105 | 0.047 | 0.642 | 0.578 | 0.257 | TBJB3357010CJ#000++ | B | 3.3 | 10 | 5.5 | 0.33 | 3.3 | 3.3 | 3.96 | 6 | 9 | 9 | 0.085 | 0.124 | 0.112 | 0.050 | 0.684 | 0.615 | 0.273 | TBJA4757010CJ#000++ | A | 4.7 | 10 | 5 | 0.47 | 4.7 | 4.7 | 9.4 | 6 | 9 | 10 | 0.075 | 0.122 | 0.110 | 0.049 | 0.612 | 0.551 | 0.245 | TBJA4757010LJ#000++ | A | 4.7 | 10 | 1.4 | 0.47 | 4.7 | 4.7 | 9.4 | 6 | 9 | 10 | 0.075 | 0.231 | 0.208 | 0.093 | 0.324 | 0.292 | 0.130 | TBJB4757010CJ#000++ | B | 4.7 | 10 | 4.5 | 0.47 | 4.7 | 4.7 | 5.64 | 6 | 9 | 9 | 0.085 | 0.137 | 0.124 | 0.055 | 0.618 | 0.557 | 0.247 | TBJA6857010CJ#000++ | A | 6.8 | 10 | 4 | 0.68 | 6.8 | 6.8 | 13.6 | 6 | 9 | 10 | 0.075 | 0.137 | 0.123 | 0.055 | 0.548 | 0.493 | 0.219 | TBJA6857010LJ#000++ | A | 6.8 | 10 | 1.8 | 0.68 | 6.8 | 6.8 | 13.6 | 6 | 9 | 10 | 0.075 | 0.204 | 0.184 | 0.082 | 0.367 | 0.331 | 0.147 | TBJB6857010CJ#000++ | B | 6.8 | 10 | 3.5 | 0.68 | 6.8 | 6.8 | 8.16 | 6 | 9 | 9 | 0.085 | 0.156 | 0.140 | 0.062 | 0.545 | 0.491 | 0.218 | TBJA1067010CJ#000++ | A | 10 | 10 | 3 | 1 | 10 | 10 | 20 | 6 | 9 | 10 | 0.075 | 0.158 | 0.142 | 0.063 | 0.474 | 0.427 | 0.190 | TBJA1067010LJ#000++ | A | 10 | 10 | 1.8 | 1 | 10 | 10 | 20 | 6 | 9 | 10 | 0.075 | 0.204 | 0.184 | 0.082 | 0.367 | 0.331 | 0.147 | TBJB1067010CJ#000++ | B | 10 | 10 | 2.5 | 1 | 10 | 10 | 20 | 6 | 9 | 10 | 0.085 | 0.184 | 0.166 | 0.074 | 0.461 | 0.415 | 0.184 | TBJC1067010CJ#000++ | C | 10 | 10 | 2.5 | 1 | 10 | 10 | 20 | 6 | 9 | 10 | 0.110 | 0.210 | 0.189 | 0.084 | 0.524 | 0.472 | 0.210 | TBJA1567010CJ#000++ | A | 15 | 10 | 3.2 | 1.5 | 15 | 15 | 30 | 6 | 9 | 10 | 0.075 | 0.153 | 0.138 | 0.061 | 0.490 | 0.441 | 0.196 | TBJA1567010LJ#000++ | A | 15 | 10 | 1 | 1.5 | 15 | 15 | 30 | 6 | 9 | 10 | 0.075 | 0.274 | 0.246 | 0.110 | 0.274 | 0.246 | 0.110 | TBJB1567010CJ#000++ | B | 15 | 10 | 2.8 | 1.5 | 15 | 15 | 30 | 6 | 9 | 10 | 0.085 | 0.174 | 0.157 | 0.070 | 0.488 | 0.439 | 0.195 | TBJB1567010LJ#000++ | B | 15 | 10 | 0.45 | 1.5 | 15 | 15 | 30 | 6 | 9 | 10 | 0.085 | 0.391 | 0.391 | 0.174 | 0.196 | 0.176 | 0.078 | TBJC1567010CJ#000++ | C | 15 | 10 | 2.5 | 1.5 | 15 | 15 | 18 | 6 | 9 | 9 | 0.110 | 0.210 | 0.189 | 0.084 | 0.524 | 0.472 | 0.210 | TBJB2257010CJ#000++ | B | 22 | 10 | 2.4 | 2.2 | 22 | 22 | 44 | 6 | 9 | 10 | 0.085 | 0.188 | 0.169 | 0.075 | 0.452 | 0.406 | 0.181 | TBJB2257010LJ#000++ | B | 22 | 10 | 0.7 | 2.2 | 22 | 22 | 44 | 6 | 9 | 10 | 0.085 | 0.348 | 0.314 | 0.139 | 0.244 | 0.220 | 0.098 | TBJC2257010CJ#000++ | C | 22 | 10 | 1 | 2.2 | 22 | 22 | 44 | 6 | 9 | 10 | 0.110 | 0.332 | 0.298 | 0.133 | 0.332 | 0.298 | 0.133 | TBJC2257010LJ#000++ | C | 22 | 10 | 0.3 | 2.2 | 22 | 22 | 44 | 6 | 9 | 10 | 0.110 | 0.606 | 0.545 | 0.242 | 0.182 | 0.163 | 0.073 | TBJA3367010CJ#000++ | A | 33 | 10 | 1.7 | 3.3 | 33 | 33 | 66 | 8 | 10 | 12 | 0.075 | 0.210 | 0.189 | 0.084 | 0.357 | 0.321 | 0.143 | TBJA3367010LJ#000++ | A | 33 | 10 | 0.7 | 3.3 | 33 | 33 | 66 | 8 | 10 | 12 | 0.075 | 0.327 | 0.295 | 0.131 | 0.229 | 0.206 | 0.092 | TBJB3367010CJ#000++ | B | 33 | 10 | 1.8 | 3.3 | 33 | 33 | 66 | 6 | 9 | 10 | 0.085 | 0.217 | 0.196 | 0.087 | 0.391 | 0.352 | 0.156 | TBJB3367010LJ#000++ | B | 33 | 10 | 0.25 | 3.3 | 33 | 33 | 66 | 6 | 8 | 10 | 0.085 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 | TBJC3367010CJ#000++ | C | 33 | 10 | 1.6 | 3.3 | 33 | 33 | 66 | 6 | 9 | 10 | 0.110 | 0.262 | 0.236 | 0.105 | 0.420 | 0.378 | 0.168 | TBJC3367010LJ#000++ | C | 33 | 10 | 0.15 | 3.3 | 33 | 33 | 66 | 6 | 9 | 10 | 0.110 | 0.856 | 0.771 | 0.343 | 0.128 | 0.116 | 0.051 | TBJD3367010CJ#000++ | D | 33 | 10 | 1.1 | 3.3 | 33 | 33 | 39.6 | 6 | 9 | 9 | 0.150 | 0.369 | 0.332 | 0.148 | 0.406 | 0.366 | 0.162 | TBJD3367010LJ#000++ | D | 33 | 10 | 0.35 | 4.7 | 47 | 47 | 94 | 8 | 10 | 12 | 0.085 | 0.493 | 0.444 | 0.197 | 0.172 | 0.155 | 0.069 | TBJB4767010CJ#000++ | B | 47 | 10 | 0.25 | 4.7 | 47 | 47 | 94 | 8 | 10 | 12 | 0.085 | 0.583 | 0.525 | 0.233 | 0.146 | 0.131 | 0.058 | TBJB4767010LJ#000++ | B | 47 | 10 | 0.12 | 4.7 | 47 | 47 | 94 | 6 | 9 | 10 | 0.110 | 0.303 | 0.272 | 0.121 | 0.363 | 0.327 | 0.145 | TBJC4767010CJ#000++ | C | 47 | 10 | 1.2 | 4.7 | 47 | 47 | 94 | 6 | 9 | 10 | 0.110 | 0.742 | 0.667 | 0.297 | 0.148 | 0.133 | 0.059 | TBJC4767010LJ#000++ | C | 47 | 10 | 0.2 | 4.7 | 47 | 47 | 94 | 6 | 9 | 10 | 0.110 | 1.408 | 1.225 | 0.490 | 0.122 | 0.110 | 0.049 | TBD4767010CJ#000++ | D | 47 | 10 | 0.9 | 4.7 | 47 | 47 | 56.4 | 6 | 9 | 9 | 0.150 | 0.408 | 0.367 | 0.163 | 0.367 | 0.331 | 0.147 | TBD4767010LJ#000++ | D | 47 | 10 | 0.1 | 4.7 | 47 | 47 | 94 | 6 | 9 | 10 | 0.150 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 | TBJB6867010CJ#000++ | B | 68 | 10 | 0.6 | 6.8 | 68 | 68 | 136 | 8 | 10 | 12 | 0.085 | 0.376 | 0.339 | 0.151 | 0.226 | 0.203 | 0.090 | TBJB6867010LJ#000++ | B | 68 | 10 | 1.2 | 6.8 | 68 | 68 | 136 | 6 | 10 | 12 | 0.110 | 0.303 | 0.272 | 0.121 | 0.363 | 0.327 | 0.145 | TBJC6867010CJ#000++ | C | 68 | 10 | 0.08 | 6.8 | 68 | 68 | 136 | 6 | 10 | 12 | 0.110 | 1.173 | 1.055 | 0.469 | 0.094 | 0.084 | 0.038 | TBJC6867010LJ#000++ | C | 68 | 10 | 0.9 | 6.8 | 68 | 68 | 136 | 6 | 9 | 10 | 0.150 | 0.408 | 0.367 | 0.163 | 0.367 | 0.331 | 0.147 | TBD6867010CJ#000++ | D | 68 | 10 | 0.1 | 6.8 | 68 | 68 | 136 | 6 | 9 | 10 | 0.150 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 | TBD6867010LJ#000++ | D | 68 | 10 | 0.1 | 6.8 | 68 | 68 | 136 | 6 | 9 | 10 | 0.150 | 1.225 | 1.102 | 0.490 | 0.122 | 0.110 | 0.049 | TBJB107010CJ#000++ | B | 100 | 10 | 0.4 | 10 | 100 | 100 | 200 | 8 | 10 | 12 | 0.085 | 0.461 | 0.415 | 0.184 | 0.184 | 0.166 | 0.074 |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

**NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.**

| RATING & PART<br>NUMBER REFERENCE |      | Parametric Specifications by Rating per MIL-PRF-55365/4 |                     |                 |         |       |       |        |       |                        |       | Typical Power Dissipation Data by Rating |                        |                        |                         |                        |                        |                         |           |           |            |
|-----------------------------------|------|---------------------------------------------------------|---------------------|-----------------|---------|-------|-------|--------|-------|------------------------|-------|------------------------------------------|------------------------|------------------------|-------------------------|------------------------|------------------------|-------------------------|-----------|-----------|------------|
|                                   |      | Cap<br>@ 120Hz                                          | DC Rated<br>Voltage | ESR<br>@ 100kHz | DCL max | +25°C | +85°C | +125°C | +25°C | DF Max<br>+ (85/125)°C | -55°C | Power<br>Dissipation                     | 25°C<br>Ripple Current | 85°C<br>Ripple Current | 125°C<br>Ripple Current | 25°C<br>Ripple Voltage | 85°C<br>Ripple Voltage | 125°C<br>Ripple Voltage | 25°C<br>V | 85°C<br>V | 125°C<br>V |
| AVX COTS-Plus P/N                 | Case | µF                                                      | @ +85°C             | Ohms<br>@ +25°C | (µA)    | (µA)  | (µA)  | (µA)   | (%)   | (%)                    | (%)   | W                                        | (100kHz)               | (100kHz)               | (100kHz)                | (100kHz)               | (100kHz)               | (100kHz)                | (100kHz)  | (100kHz)  | (100kHz)   |
| TBJC107010C1#00++                 | C    | 100                                                     | 10                  | 1.2             | 10      | 100   | 200   | 200    | 8     | 10                     | 12    | 0.110                                    | 0.303                  | 0.272                  | 0.121                   | 0.363                  | 0.327                  | 0.145                   | 0.363     | 0.327     | 0.145      |
| TBJC107010C1#00++                 | C    | 100                                                     | 10                  | 0.2             | 10      | 100   | 200   | 200    | 8     | 10                     | 12    | 0.110                                    | 0.742                  | 0.667                  | 0.297                   | 0.148                  | 0.133                  | 0.059                   | 0.148     | 0.133     | 0.059      |
| TBJD107010C1#00++                 | D    | 100                                                     | 10                  | 0.9             | 10      | 100   | 200   | 200    | 6     | 9                      | 10    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJD107010C1#00++                 | D    | 100                                                     | 10                  | 0.1             | 10      | 100   | 200   | 200    | 6     | 9                      | 10    | 0.150                                    | 1.225                  | 1.102                  | 0.490                   | 0.122                  | 0.110                  | 0.049                   | 0.122     | 0.110     | 0.049      |
| TBJE107010C1#00++                 | E    | 100                                                     | 10                  | 0.125           | 10      | 100   | 200   | 200    | 6     | 9                      | 10    | 0.165                                    | 1.285                  | 1.156                  | 0.514                   | 0.128                  | 0.116                  | 0.051                   | 0.128     | 0.116     | 0.051      |
| TBJD157010C1#00++                 | D    | 150                                                     | 10                  | 0.9             | 15      | 150   | 300   | 300    | 8     | 10                     | 12    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJD157010C1#00++                 | D    | 150                                                     | 10                  | 0.1             | 15      | 150   | 300   | 300    | 8     | 10                     | 12    | 0.150                                    | 1.225                  | 1.102                  | 0.490                   | 0.122                  | 0.110                  | 0.049                   | 0.122     | 0.110     | 0.049      |
| TBJE157010C1#00++                 | E    | 150                                                     | 10                  | 0.1             | 15      | 150   | 300   | 300    | 8     | 10                     | 12    | 0.165                                    | 1.285                  | 1.156                  | 0.514                   | 0.128                  | 0.116                  | 0.051                   | 0.128     | 0.116     | 0.051      |
| TBJD227010C1#00++                 | D    | 220                                                     | 10                  | 0.9             | 22      | 220   | 440   | 440    | 8     | 10                     | 12    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.367                  | 0.331                  | 0.147                   | 0.367     | 0.331     | 0.147      |
| TBJD227010C1#00++                 | D    | 220                                                     | 10                  | 0.15            | 22      | 220   | 440   | 440    | 8     | 10                     | 12    | 0.150                                    | 1.000                  | 0.900                  | 0.400                   | 0.150                  | 0.135                  | 0.060                   | 0.150     | 0.135     | 0.060      |
| TBJE227010C1#00++                 | E    | 220                                                     | 10                  | 0.9             | 22      | 220   | 440   | 440    | 8     | 10                     | 12    | 0.165                                    | 0.428                  | 0.385                  | 0.171                   | 0.385                  | 0.347                  | 0.154                   | 0.385     | 0.347     | 0.154      |
| TBJE227010C1#00++                 | E    | 220                                                     | 10                  | 0.1             | 22      | 220   | 440   | 440    | 8     | 10                     | 12    | 0.165                                    | 1.285                  | 1.156                  | 0.514                   | 0.128                  | 0.116                  | 0.051                   | 0.128     | 0.116     | 0.051      |
| TBJD337010C1#00++                 | D    | 330                                                     | 10                  | 0.15            | 33      | 330   | 660   | 660    | 8     | 10                     | 12    | 0.150                                    | 1.000                  | 0.900                  | 0.400                   | 0.150                  | 0.135                  | 0.060                   | 0.150     | 0.135     | 0.060      |
| TBJE337010C1#00++                 | E    | 330                                                     | 10                  | 0.9             | 33      | 330   | 660   | 660    | 8     | 10                     | 12    | 0.165                                    | 0.428                  | 0.385                  | 0.171                   | 0.385                  | 0.347                  | 0.154                   | 0.385     | 0.347     | 0.154      |
| TBJE337010C1#00++                 | E    | 330                                                     | 10                  | 0.06            | 33      | 330   | 660   | 660    | 8     | 10                     | 12    | 0.165                                    | 1.492                  | 1.363                  | 0.587                   | 0.171                  | 0.154                  | 0.063                   | 0.165     | 0.154     | 0.063      |
| TBMV337010C1#00++                 | V    | 330                                                     | 10                  | 0.1             | 33      | 330   | 660   | 660    | 8     | 10                     | 12    | 0.250                                    | 1.581                  | 1.423                  | 0.632                   | 0.158                  | 0.142                  | 0.063                   | 0.250     | 0.158     | 0.142      |
| TBMV337010C1#00++                 | V    | 330                                                     | 10                  | 0.06            | 33      | 330   | 660   | 660    | 8     | 10                     | 12    | 0.250                                    | 2.041                  | 1.837                  | 0.816                   | 0.122                  | 0.110                  | 0.049                   | 0.250     | 0.122     | 0.110      |
| TBJE477010C1#00++                 | E    | 470                                                     | 10                  | 0.05            | 47      | 470   | 940   | 940    | 10    | 12                     | 14    | 0.165                                    | 0.428                  | 0.385                  | 0.171                   | 0.385                  | 0.347                  | 0.154                   | 0.385     | 0.347     | 0.154      |
| TBMV477010C1#00++                 | V    | 470                                                     | 10                  | 0.1             | 47      | 470   | 940   | 940    | 10    | 12                     | 14    | 0.250                                    | 1.581                  | 1.423                  | 0.632                   | 0.158                  | 0.142                  | 0.063                   | 0.250     | 0.158     | 0.142      |
| TBMV477010C1#00++                 | V    | 470                                                     | 10                  | 0.06            | 47      | 470   | 940   | 940    | 10    | 12                     | 14    | 0.250                                    | 2.041                  | 1.837                  | 0.816                   | 0.122                  | 0.110                  | 0.049                   | 0.250     | 0.122     | 0.110      |
| TBJA6847015C1#00++                | A    | 0.68                                                    | 15                  | 12              | 0.102   | 1.02  | 1.224 | 4      | 6     | 9                      | 10    | 0.075                                    | 0.079                  | 0.071                  | 0.032                   | 0.049                  | 0.054                  | 0.379                   | 0.075     | 0.071     | 0.032      |
| TBJA1057015C1#00++                | A    | 1                                                       | 15                  | 10              | 0.15    | 1.5   | 1.8   | 4      | 6     | 9                      | 10    | 0.075                                    | 0.087                  | 0.078                  | 0.035                   | 0.066                  | 0.079                  | 0.346                   | 0.075     | 0.078     | 0.035      |
| TBJA1557015C1#00++                | A    | 1.5                                                     | 15                  | 8               | 0.225   | 2.25  | 2.7   | 6      | 9     | 10                     | 12    | 0.075                                    | 0.097                  | 0.087                  | 0.039                   | 0.069                  | 0.079                  | 0.310                   | 0.075     | 0.097     | 0.039      |
| TBJB2257015C1#00++                | B    | 2.2                                                     | 15                  | 5.5             | 0.33    | 3.3   | 3.96  | 6      | 9     | 10                     | 12    | 0.085                                    | 0.124                  | 0.112                  | 0.050                   | 0.084                  | 0.0615                 | 0.273                   | 0.085     | 0.124     | 0.112      |
| TBJB3357015C1#00++                | B    | 3.3                                                     | 15                  | 5               | 0.495   | 4.95  | 5.94  | 6      | 9     | 10                     | 12    | 0.085                                    | 0.130                  | 0.117                  | 0.052                   | 0.085                  | 0.0587                 | 0.261                   | 0.085     | 0.130     | 0.117      |
| TBJB4757015C1#00++                | B    | 4.7                                                     | 15                  | 4               | 0.705   | 7.05  | 8.46  | 6      | 9     | 10                     | 12    | 0.085                                    | 0.146                  | 0.131                  | 0.058                   | 0.0525                 | 0.233                  | 0.479                   | 0.085     | 0.146     | 0.131      |
| TBJC1067015C1#00++                | C    | 10                                                      | 15                  | 2.5             | 1.5     | 18    | 18    | 4      | 6     | 9                      | 10    | 0.110                                    | 0.210                  | 0.189                  | 0.084                   | 0.0524                 | 0.210                  | 0.110                   | 0.110     | 0.210     | 0.189      |
| TBJD2287015C1#00++                | D    | 22                                                      | 15                  | 1.1             | 3.3     | 33    | 39.6  | 6      | 9     | 10                     | 12    | 0.150                                    | 0.389                  | 0.332                  | 0.148                   | 0.046                  | 0.366                  | 0.162                   | 0.150     | 0.389     | 0.332      |
| TBJD3367015C1#00++                | D    | 33                                                      | 15                  | 0.9             | 4.95    | 49.5  | 59.4  | 6      | 9     | 10                     | 12    | 0.150                                    | 0.408                  | 0.367                  | 0.163                   | 0.048                  | 0.331                  | 0.147                   | 0.150     | 0.408     | 0.367      |
| TBJD157015L1#00++                 | D    | 150                                                     | 15                  | 0.05            | 5.625   | 56.25 | 112.5 | 4      | 6     | 9                      | 10    | 0.150                                    | 1.732                  | 1.559                  | 0.693                   | 0.087                  | 0.078                  | 0.335                   | 0.150     | 1.732     | 1.559      |
| TBJA6847016C1#00++                | A    | 0.68                                                    | 16                  | 12              | 0.109   | 1.088 | 2.176 | 4      | 6     | 9                      | 10    | 0.075                                    | 0.079                  | 0.071                  | 0.032                   | 0.049                  | 0.054                  | 0.379                   | 0.075     | 0.079     | 0.032      |
| TBJA1057016C1#00++                | A    | 1                                                       | 16                  | 10              | 0.16    | 1.6   | 3.2   | 4      | 6     | 9                      | 10    | 0.075                                    | 0.087                  | 0.078                  | 0.035                   | 0.066                  | 0.079                  | 0.346                   | 0.075     | 0.087     | 0.035      |
| TBJA2257016C1#00++                | A    | 2.2                                                     | 16                  | 5.5             | 0.352   | 3.52  | 7.04  | 6      | 9     | 10                     | 12    | 0.075                                    | 0.117                  | 0.105                  | 0.047                   | 0.042                  | 0.257                  | 0.221                   | 0.075     | 0.117     | 0.105      |
| TBJA2257016C1#00++                | A    | 2.2                                                     | 16                  | 1.8             | 0.352   | 3.52  | 7.04  | 6      | 9     | 10                     | 12    | 0.075                                    | 0.204                  | 0.184                  | 0.082                   | 0.0367                 | 0.331                  | 0.147                   | 0.075     | 0.204     | 0.184      |
| TBJB2257016C1#00++                | B    | 2.2                                                     | 16                  | 5               | 0.352   | 3.52  | 7.04  | 6      | 9     | 10                     | 12    | 0.075                                    | 0.130                  | 0.117                  | 0.052                   | 0.0612                 | 0.245                  | 0.221                   | 0.075     | 0.130     | 0.117      |
| TBJA3357016C1#00++                | A    | 3.3                                                     | 16                  | 5               | 0.528   | 5.28  | 10.56 | 4      | 6     | 9                      | 10    | 0.075                                    | 0.146                  | 0.132                  | 0.059                   | 0.0512                 | 0.205                  | 0.221                   | 0.075     | 0.146     | 0.132      |
| TBJA3357016C1#00++                | A    | 3.3                                                     | 16                  | 3.5             | 0.528   | 5.28  | 10.56 | 4      | 6     | 9                      | 10    | 0.075                                    | 0.137                  | 0.124                  | 0.055                   | 0.048                  | 0.247                  | 0.221                   | 0.075     | 0.137     | 0.124      |
| TBJB3357016C1#00++                | B    | 3.3                                                     | 16                  | 4.5             | 0.528   | 5.28  | 10.56 | 4      | 6     | 9                      | 10    | 0.075                                    | 0.137                  | 0.124                  | 0.055                   | 0.048                  | 0.247                  | 0.221                   | 0.075     | 0.137     | 0.124      |
| TBJA4757016C1#00++                | A    | 4.7                                                     | 16                  | 4               | 0.752   | 7.52  | 15.04 | 6      | 9     | 10                     | 12    | 0.075                                    | 0.166                  | 0.149                  | 0.066                   | 0.0513                 | 0.245                  | 0.221                   | 0.075     | 0.166     | 0.149      |
| TBJA4757016C1#00++                | A    | 4.7                                                     | 16                  | 2               | 0.752   | 7.52  | 15.04 | 6      | 9     | 10                     | 12    | 0.075                                    | 0.194                  | 0.174                  | 0.077                   | 0.0387                 | 0.349                  | 0.155                   | 0.075     | 0.194     | 0.174      |
| TBJB4757016C1#00++                | B    | 4.7                                                     | 16                  | 3.1             | 0.752   | 7.52  | 15.04 | 6      | 9     | 10                     | 12    | 0.075                                    | 0.166                  | 0.149                  | 0.066                   | 0.0513                 | 0.245                  | 0.221                   | 0.075     | 0.166     | 0.149      |
| TBJB4757016C1#00++                | B    | 4.7                                                     | 16                  | 0.8             | 0.752   | 7.52  | 15.04 | 6      | 9     | 10                     | 12    | 0.085                                    | 0.326                  | 0.293                  | 0.130                   | 0.261                  | 0.104                  | 0.221                   | 0.085     | 0.326     | 0.293      |
| TBJA6857016C1#00++                | A    | 6.8                                                     | 16                  | 2.5             | 1.088   | 10.88 | 21.76 | 6      | 9     | 10                     | 12    | 0.075                                    | 0.173                  | 0.156                  | 0.069                   | 0.0433                 | 0.390                  | 0.173                   | 0.075     | 0.173     | 0.156      |
| TBJA6857016C1#00++                | A    | 6.8                                                     | 16                  | 1.5             | 1.088   | 10.88 | 21.76 | 6      | 9     | 10                     | 12    | 0.075                                    | 0.224                  | 0.201                  | 0.089                   | 0.0335                 | 0.302                  | 0.134                   | 0.075     | 0.224     | 0.201      |
| TBJB6857016C1#00++                | B    | 6.8                                                     | 16                  | 2.5             | 1.088   | 10.88 | 21.76 | 6      | 9     | 10                     | 12    | 0.085                                    | 0.194                  | 0.166                  | 0.066                   | 0.0461                 | 0.184                  | 0.134                   | 0.085     | 0.194     | 0.166      |
| TBJB6857016C1#00++                | B    | 6.8                                                     | 16                  | 0.6             | 1.088   | 10.88 | 21.76 | 6      | 9     | 10                     | 12    | 0.085                                    | 0.376                  | 0.339                  | 0.151                   | 0.226                  | 0.203                  | 0.090                   | 0.085     | 0.376     | 0.339      |
| TBJC6857016C1#00++                | C    | 6.8                                                     | 16                  | 2.5             | 1.088   | 10.88 | 21.76 | 6      | 9     | 10                     | 12    | 0.110                                    | 0.210                  | 0.189                  | 0.084                   | 0.0524                 | 0.210                  | 0.110                   | 0.110     | 0.210     | 0.189      |
| TBJA1067016L1#00++                | A    | 10                                                      | 16                  | 3               | 1.6     | 16    | 32    | 8      | 10    | 12                     | 14    | 0.075                                    | 0.158                  | 0.142                  | 0.063                   | 0.0474                 | 0.210                  | 0.110                   | 0.075     | 0.158     | 0.142      |
| TBJA1067016L1#00++                | A    | 10                                                      | 16                  | 1               | 1.6     | 16    | 32    | 8      | 10    | 12                     | 14    | 0.075                                    | 0.274                  | 0.246                  | 0.110                   | 0.274                  | 0.246                  | 0.110                   | 0.075     | 0.274     | 0.246      |
| TBJB1067016C1#00++                | B    | 10                                                      | 16                  | 2.8             | 1.6     | 16    | 32    | 6      | 9     | 10                     | 12    | 0.085                                    | 0.174                  | 0.157                  | 0.070                   | 0.0488                 | 0.195                  | 0.110                   | 0.085     | 0.174     | 0.157      |
| TBJB1067016L1#00++                | B    | 10                                                      | 16                  | 0.5             | 1.6     | 16    | 32    | 6      | 9     | 10                     | 12    | 0.085                                    | 0.412                  | 0.371                  | 0.165                   | 0.206                  | 0.186                  | 0.082                   | 0.085     | 0.412     | 0.371      |
| TBJC1067016C1#00++                | C    | 10                                                      | 16                  | 2.5             | 1.6     | 16    | 32    | 6      | 9     | 10                     | 12    | 0.110                                    | 0.210                  | 0.189                  | 0.084                   | 0.0524                 | 0.210                  | 0.110                   | 0.110     | 0.210     | 0.189      |
| TBJC1067016L1#00++                | C    | 10                                                      | 16                  | 0.5             | 1.6     | 16    | 32    | 6      | 9     | 10                     | 12    | 0.110                                    | 0.469                  | 0.422                  | 0.188                   | 0.235                  | 0.211                  | 0.094                   | 0.110     | 0.469     | 0.422      |
| TBJB1567016C1#00++                | B    | 15                                                      | 16                  | 2.5             | 2.4     | 24    | 48    | 6      | 9     | 10                     | 12    | 0.085                                    | 0.194                  | 0.166                  | 0.074                   | 0.0461                 | 0.184                  | 0.110                   | 0.085     | 0.194     | 0.166      |
| TBJB1567016L1#00++                | B    | 15                                                      | 16                  | 0.8             | 2.4     | 24    | 48    | 6      | 9     | 10                     | 12    | 0.085                                    | 0.326                  | 0.293                  | 0.130                   | 0.261                  | 0.104                  | 0.221                   | 0.085     | 0.326     | 0.293      |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

| RATING & PART<br>NUMBER REFERENCE |                      | Parametric Specifications by Rating per MIL-PRF-55365/4 |              |                 |               |               |                |              |                    |              |   | Typical Power Dissipation Data by Rating |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|-----------------------------------|----------------------|---------------------------------------------------------|--------------|-----------------|---------------|---------------|----------------|--------------|--------------------|--------------|---|------------------------------------------|----------------------------|------------------|----------------------------|---------------|---------------|---------------|----------------------------|---------------|---------------|---------------|----------------------------|---------------|---------------|---------------|----------------------------|---------------|--|
|                                   |                      | DC Rated Voltage                                        |              |                 |               |               | ESR            |              | DCL max            |              |   | DF Max                                   |                            | Power Disipation |                            | 25°C          |               | 85°C          |                            | 125°C         |               | 25°C          |                            | 85°C          |               | 125°C         |                            |               |  |
|                                   |                      | Cap<br>@ 120Hz                                          | V<br>@ +85°C | Ohms<br>@ +25°C | +25°C<br>(µA) | +85°C<br>(µA) | +125°C<br>(µA) | +25°C<br>(%) | (+85/125)°C<br>(%) | -55°C<br>(%) | W | A<br>(100kHz)                            | Ripple Current<br>(100kHz) | A<br>(100kHz)    | Ripple Current<br>(100kHz) | V<br>(100kHz) | V<br>(100kHz) | A<br>(100kHz) | Ripple Current<br>(100kHz) | V<br>(100kHz) | V<br>(100kHz) | A<br>(100kHz) | Ripple Current<br>(100kHz) | V<br>(100kHz) | V<br>(100kHz) | A<br>(100kHz) | Ripple Current<br>(100kHz) | V<br>(100kHz) |  |
| AVX                               | COTS-Plus P/N        | Case                                                    | C            | 15              | 16            | 1.8           | 2.4            | 24           | 48                 | 6            | 9 | 10                                       | 0.110                      | 0.247            | 0.222                      | 0.099         | 0.445         | 0.400         | 0.178                      |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC156V016CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB226V016CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB226V016LJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC226V016CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC226V016LJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD226V016CJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD226V016LJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB336V016LJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC336V016CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC336V016LJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD336V016CJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD336V016LJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC476V016CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC476V016LJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD476V016CJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD476V016LJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC686V016CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC686V016LJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD686V016CJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD686V016LJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD107V016CJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD107V016LJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJE107V016CJ#H@0V++ | E                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJE107V016LJ#H@0V++ | E                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD157V016CJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJD157V016LJ#H@0V++ | D                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJE157V016CJ#H@0V++ | E                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJE157V016LJ#H@0V++ | E                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBMV157V016CJ#H@0V++ | V                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBMV157V016LJ#H@0V++ | V                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJE227V016CJ#H@0V++ | E                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJE227V016LJ#H@0V++ | E                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBMV227V016CJ#H@0V++ | V                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBMV227V016LJ#H@0V++ | V                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA474V020CJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA684V020CJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA105V020CJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA105V020LJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA155V020CJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB155V020CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA225V020CJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA225V020LJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB225V020CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA335V020LJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB335V020CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB335V020LJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA475V020CJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA475V020LJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB475V020CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB475V020LJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC475V020CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJA685V020LJ#H@0V++ | A                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB685V020CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB685V020LJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC685V020CJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJC685V020LJ#H@0V++ | C                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |
|                                   | TBJB106V020CJ#H@0V++ | B                                                       |              |                 |               |               |                |              |                    |              |   |                                          |                            |                  |                            |               |               |               |                            |               |               |               |                            |               |               |               |                            |               |  |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

**NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.**

| RATING & PART<br>NUMBER REFERENCE |      | Parametric Specifications by Rating per MIL-PRF-55365/4 |              |                 |               |               |                |              |                    |              |                      | Typical Power Dissipation Data by Rating |                |               |                |               |                |               |                   |               |               |                |               |                   |               |               |                |               |                   |               |       |  |  |
|-----------------------------------|------|---------------------------------------------------------|--------------|-----------------|---------------|---------------|----------------|--------------|--------------------|--------------|----------------------|------------------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|-------------------|---------------|---------------|----------------|---------------|-------------------|---------------|---------------|----------------|---------------|-------------------|---------------|-------|--|--|
|                                   |      | DC Rated Voltage                                        |              |                 |               |               | ESR            |              | DCL max            |              |                      | DF Max                                   |                | Power         |                |               |                |               | 25°C              |               |               |                |               | 85°C              |               |               |                |               | 125°C             |               |       |  |  |
|                                   |      | Cap<br>@ 120Hz                                          | V<br>@ +85°C | Ohms<br>@ +25°C | +25°C<br>(µA) | +85°C<br>(µA) | +125°C<br>(µA) | +25°C<br>(%) | (+85/125)°C<br>(%) | -55°C<br>(%) | Power<br>Dissipation | A<br>(100kHz)                            | Ripple Current | A<br>(100kHz) | Ripple Current | A<br>(100kHz) | Ripple Current | V<br>(100kHz) | Voltage<br>Ripple | V<br>(100kHz) | A<br>(100kHz) | Ripple Current | V<br>(100kHz) | Voltage<br>Ripple | V<br>(100kHz) | A<br>(100kHz) | Ripple Current | V<br>(100kHz) | Voltage<br>Ripple | V<br>(100kHz) |       |  |  |
| AVX COTS-Plus P/N                 | Case | TB1B106V020□#60V++                                      | B            | 10              | 20            | 1             | 2              | 20           | 40                 | 40           | 6                    | 6                                        | 8              | 8             | 10             | 0.085         | 0.292          | 0.262         | 0.117             | 0.292         | 0.262         | 0.117          | 0.292         | 0.262             | 0.117         | 0.292         | 0.262          | 0.117         | 0.292             | 0.262         | 0.117 |  |  |
| TB1C106V020□#60V++                | C    | 10                                                      | 20           | 1.9             | 2             | 20            | 40             | 40           | 6                  | 8            | 10                   | 0.110                                    | 0.241          | 0.217         | 0.096          | 0.457         | 0.411          | 0.183         |                   |               |               | 0.457          | 0.411         | 0.183             |               |               |                | 0.457         | 0.411             | 0.183         |       |  |  |
| TB1C106V020□#60V++                | C    | 10                                                      | 20           | 0.5             | 2             | 20            | 40             | 40           | 6                  | 8            | 10                   | 0.110                                    | 0.469          | 0.422         | 0.188          | 0.235         | 0.211          | 0.094         |                   |               |               | 0.235          | 0.211         | 0.094             |               |               |                | 0.235         | 0.211             | 0.094         |       |  |  |
| TB1B156V020□#60V++                | B    | 15                                                      | 20           | 2               | 3             | 30            | 60             | 60           | 6                  | 8            | 10                   | 0.085                                    | 0.206          | 0.186         | 0.082          | 0.412         | 0.371          | 0.165         |                   |               |               | 0.412          | 0.371         | 0.165             |               |               |                | 0.412         | 0.371             | 0.165         |       |  |  |
| TB1B156V020□#60V++                | B    | 15                                                      | 20           | 0.5             | 3             | 30            | 60             | 60           | 6                  | 8            | 10                   | 0.085                                    | 0.412          | 0.371         | 0.165          | 0.206         | 0.186          | 0.082         |                   |               |               | 0.206          | 0.186         | 0.082             |               |               |                | 0.206         | 0.186             | 0.082         |       |  |  |
| TB1C156V020□#60V++                | C    | 15                                                      | 20           | 1.7             | 3             | 30            | 60             | 60           | 6                  | 8            | 10                   | 0.110                                    | 0.254          | 0.229         | 0.102          | 0.432         | 0.389          | 0.173         |                   |               |               | 0.432          | 0.389         | 0.173             |               |               |                | 0.432         | 0.389             | 0.173         |       |  |  |
| TB1C156V020□#60V++                | C    | 15                                                      | 20           | 0.4             | 3             | 30            | 60             | 60           | 6                  | 8            | 10                   | 0.110                                    | 0.524          | 0.472         | 0.210          | 0.210         | 0.189          | 0.084         |                   |               |               | 0.210          | 0.189         | 0.084             |               |               |                | 0.210         | 0.189             | 0.084         |       |  |  |
| TB1D156V020□#60V++                | D    | 15                                                      | 20           | 1.1             | 3             | 30            | 36             | 36           | 6                  | 8            | 9                    | 0.150                                    | 0.369          | 0.332         | 0.148          | 0.406         | 0.366          | 0.162         |                   |               |               | 0.406          | 0.366         | 0.162             |               |               |                | 0.406         | 0.366             | 0.162         |       |  |  |
| TB1B226V020□#60V++                | B    | 22                                                      | 20           | 0.6             | 4.4           | 44            | 88             | 88           | 6                  | 9            | 10                   | 0.085                                    | 0.376          | 0.339         | 0.151          | 0.226         | 0.203          | 0.090         |                   |               |               | 0.226          | 0.203         | 0.090             |               |               |                | 0.226         | 0.203             | 0.090         |       |  |  |
| TB1B226V020□#60V++                | B    | 22                                                      | 20           | 0.4             | 4.4           | 44            | 88             | 88           | 6                  | 9            | 10                   | 0.085                                    | 0.461          | 0.415         | 0.184          | 0.184         | 0.166          | 0.074         |                   |               |               | 0.184          | 0.166         | 0.074             |               |               |                | 0.184         | 0.166             | 0.074         |       |  |  |
| TB1C226V020□#60V++                | C    | 22                                                      | 20           | 1.6             | 4.4           | 44            | 88             | 88           | 6                  | 8            | 10                   | 0.110                                    | 0.262          | 0.236         | 0.105          | 0.420         | 0.378          | 0.168         |                   |               |               | 0.420          | 0.378         | 0.168             |               |               |                | 0.420         | 0.378             | 0.168         |       |  |  |
| TB1C226V020□#60V++                | C    | 22                                                      | 20           | 0.15            | 4.4           | 44            | 88             | 88           | 6                  | 8            | 10                   | 0.110                                    | 0.856          | 0.771         | 0.343          | 0.128         | 0.116          | 0.051         |                   |               |               | 0.343          | 0.128         | 0.116             |               |               |                | 0.343         | 0.128             | 0.116         |       |  |  |
| TB1D226V020□#60V++                | D    | 22                                                      | 20           | 0.9             | 4.4           | 44            | 52.8           | 52.8         | 6                  | 9            | 10                   | 0.150                                    | 0.408          | 0.367         | 0.163          | 0.367         | 0.331          | 0.147         |                   |               |               | 0.367          | 0.331         | 0.147             |               |               |                | 0.367         | 0.331             | 0.147         |       |  |  |
| TB1D226V020□#60V++                | D    | 22                                                      | 20           | 0.2             | 4.4           | 44            | 88             | 88           | 6                  | 9            | 10                   | 0.150                                    | 0.866          | 0.779         | 0.346          | 0.173         | 0.156          | 0.069         |                   |               |               | 0.346          | 0.173         | 0.156             |               |               |                | 0.346         | 0.173             | 0.156         |       |  |  |
| TB1C336V020□#60V++                | C    | 33                                                      | 20           | 1.5             | 6.6           | 66            | 132            | 132          | 6                  | 8            | 10                   | 0.110                                    | 0.271          | 0.244         | 0.108          | 0.406         | 0.366          | 0.162         |                   |               |               | 0.406          | 0.366         | 0.162             |               |               |                | 0.406         | 0.366             | 0.162         |       |  |  |
| TB1C336V020□#60V++                | C    | 33                                                      | 20           | 0.3             | 6.6           | 66            | 132            | 132          | 6                  | 9            | 10                   | 0.110                                    | 0.606          | 0.545         | 0.242          | 0.182         | 0.163          | 0.073         |                   |               |               | 0.242          | 0.182         | 0.163             |               |               |                | 0.242         | 0.182             | 0.163         |       |  |  |
| TB1D336V020□#60V++                | D    | 33                                                      | 20           | 0.9             | 6.6           | 66            | 132            | 132          | 6                  | 8            | 10                   | 0.150                                    | 0.408          | 0.367         | 0.163          | 0.367         | 0.331          | 0.147         |                   |               |               | 0.367          | 0.331         | 0.147             |               |               |                | 0.367         | 0.331             | 0.147         |       |  |  |
| TB1D336V020□#60V++                | D    | 33                                                      | 20           | 0.1             | 6.6           | 66            | 132            | 132          | 6                  | 8            | 10                   | 0.150                                    | 1.225          | 1.102         | 0.490          | 0.122         | 0.110          | 0.049         |                   |               |               | 0.490          | 0.122         | 0.110             |               |               |                | 0.490         | 0.122             | 0.110         |       |  |  |
| TB1D476V020□#60V++                | D    | 47                                                      | 20           | 0.2             | 9.4           | 94            | 188            | 188          | 6                  | 8            | 10                   | 0.150                                    | 0.866          | 0.779         | 0.346          | 0.173         | 0.156          | 0.069         |                   |               |               | 0.346          | 0.173         | 0.156             |               |               |                | 0.346         | 0.173             | 0.156         |       |  |  |
| TB1D476V020□#60V++                | D    | 47                                                      | 20           | 0.1             | 9.4           | 94            | 188            | 188          | 6                  | 8            | 10                   | 0.150                                    | 1.225          | 1.102         | 0.490          | 0.122         | 0.110          | 0.049         |                   |               |               | 0.490          | 0.122         | 0.110             |               |               |                | 0.490         | 0.122             | 0.110         |       |  |  |
| TB1E476V020□#60V++                | E    | 47                                                      | 20           | 0.25            | 9.4           | 94            | 188            | 188          | 6                  | 8            | 10                   | 0.165                                    | 0.812          | 0.731         | 0.325          | 0.203         | 0.183          | 0.081         |                   |               |               | 0.325          | 0.203         | 0.183             |               |               |                | 0.325         | 0.203             | 0.183         |       |  |  |
| TB1E476V020□#60V++                | E    | 47                                                      | 20           | 0.07            | 9.4           | 94            | 188            | 188          | 6                  | 9            | 10                   | 0.165                                    | 1.535          | 1.382         | 0.614          | 0.107         | 0.097          | 0.043         |                   |               |               | 0.614          | 0.107         | 0.097             |               |               |                | 0.614         | 0.107             | 0.097         |       |  |  |
| TB1D686V020□#60V++                | D    | 68                                                      | 20           | 0.9             | 13.6          | 136           | 272            | 272          | 6                  | 8            | 10                   | 0.150                                    | 0.408          | 0.367         | 0.163          | 0.367         | 0.331          | 0.147         |                   |               |               | 0.367          | 0.331         | 0.147             |               |               |                | 0.367         | 0.331             | 0.147         |       |  |  |
| TB1D686V020□#60V++                | D    | 68                                                      | 20           | 0.07            | 13.6          | 136           | 272            | 272          | 6                  | 9            | 10                   | 0.150                                    | 1.464          | 1.317         | 0.586          | 0.102         | 0.092          | 0.041         |                   |               |               | 0.586          | 0.102         | 0.092             |               |               |                | 0.586         | 0.102             | 0.092         |       |  |  |
| TB1E686V020□#60V++                | E    | 68                                                      | 20           | 0.9             | 13.6          | 136           | 272            | 272          | 6                  | 8            | 10                   | 0.165                                    | 0.428          | 0.385         | 0.171          | 0.385         | 0.347          | 0.154         |                   |               |               | 0.385          | 0.347         | 0.154             |               |               |                | 0.385         | 0.347             | 0.154         |       |  |  |
| TB1E686V020□#60V++                | E    | 68                                                      | 20           | 0.15            | 13.6          | 136           | 272            | 272          | 6                  | 8            | 10                   | 0.165                                    | 1.049          | 0.944         | 0.420          | 0.157         | 0.142          | 0.063         |                   |               |               | 0.420          | 0.157         | 0.142             |               |               |                | 0.420         | 0.157             | 0.142         |       |  |  |
| TB1D107V020□#60V++                | D    | 100                                                     | 20           | 0.1             | 20            | 200           | 400            | 400          | 6                  | 9            | 10                   | 0.150                                    | 1.225          | 1.102         | 0.490          | 0.122         | 0.110          | 0.049         |                   |               |               | 0.490          | 0.122         | 0.110             |               |               |                | 0.490         | 0.122             | 0.110         |       |  |  |
| TB1D107V020□#60V++                | D    | 100                                                     | 20           | 0.085           | 20            | 200           | 400            | 400          | 6                  | 9            | 10                   | 0.150                                    | 1.328          | 1.196         | 0.531          | 0.113         | 0.102          | 0.045         |                   |               |               | 0.531          | 0.113         | 0.102             |               |               |                | 0.531         | 0.113             | 0.102         |       |  |  |
| TB1E107V020□#60V++                | E    | 100                                                     | 20           | 0.15            | 20            | 200           | 400            | 400          | 6                  | 9            | 10                   | 0.165                                    | 1.049          | 0.944         | 0.420          | 0.165         | 0.142          | 0.063         |                   |               |               | 0.420          | 0.165         | 0.142             |               |               |                | 0.420         | 0.165             | 0.142         |       |  |  |
| TB1E107V020□#60V++                | E    | 100                                                     | 20           | 0.1             | 20            | 200           | 400            | 400          | 6                  | 9            | 10                   | 0.165                                    | 1.285          | 1.156         | 0.514          | 0.128         | 0.116          | 0.051         |                   |               |               | 0.514          | 0.128         | 0.116             |               |               |                | 0.514         | 0.128             | 0.116         |       |  |  |
| TB1V107V020□#60V++                | V    | 100                                                     | 20           | 0.2             | 20            | 200           | 400            | 400          | 8                  | 10           | 12                   | 0.250                                    | 1.118          | 1.006         | 0.447          | 0.224         | 0.201          | 0.089         |                   |               |               | 0.447          | 0.224         | 0.201             |               |               |                | 0.447         | 0.224             | 0.201         |       |  |  |
| TB1V107V020□#60V++                | V    | 100                                                     | 20           | 0.085           | 20            | 200           | 400            | 400          | 8                  | 10           | 12                   | 0.250                                    | 1.715          | 1.543         | 0.686          | 0.146         | 0.131          | 0.058         |                   |               |               | 0.686          | 0.146         | 0.131             |               |               |                | 0.686         | 0.146             | 0.131         |       |  |  |
| TB1E157V020□#60V++                | E    | 150                                                     | 20           | 0.3             | 30            | 300           | 600            | 600          | 8                  | 10           | 12                   | 0.165                                    | 0.742          | 0.667         | 0.297          | 0.222         | 0.200          | 0.089         |                   |               |               | 0.667          | 0.297         | 0.222             |               |               |                | 0.667         | 0.297             | 0.222         |       |  |  |
| TB1V157V020□#60V++                | V    | 150                                                     | 20           | 0.08            | 30            | 300           | 600            | 600          | 8                  | 10           | 12                   | 0.250                                    | 1.768          | 1.591         | 0.707          | 0.141         | 0.127          | 0.057         |                   |               |               | 0.707          | 0.141         | 0.127             |               |               |                | 0.707         | 0.141             | 0.127         |       |  |  |
| TB1A334V025□#60V++                | A    | 0.33                                                    | 25           | 15              | 0.083         | 0.825         | 0.99           | 0.99         | 4                  | 6            | 6                    | 0.075                                    | 0.064          | 0.028         | 1.061          | 0.955         | 0.424          |               |                   |               | 0.064         | 0.028          | 1.061         | 0.955             | 0.424         |               |                |               | 0.955             | 0.424         |       |  |  |
| TB1A474V025□#60V++                | A    | 0.47                                                    | 25           | 14              | 0.118         | 1.175         | 1.41           | 1.41         | 4                  | 6            | 6                    | 0.075                                    | 0.073          | 0.029         | 1.025          | 0.922         | 0.410          |               |                   |               | 0.066         | 0.029          | 1.025         | 0.922             | 0.410         |               |                |               | 0.922             | 0.410         |       |  |  |
| TB1A474V025□#60V++                | A    | 0.47                                                    | 25           | 7               | 0.118         | 1.175         | 2.35           | 2.35         | 4                  | 6            | 6                    | 0.075                                    | 0.104          | 0.093         | 0.041          | 0.725         | 0.652          | 0.290         |                   |               |               | 0.093          | 0.041         | 0.725             | 0.652         | 0.290         |                |               |                   | 0.652         | 0.290 |  |  |
| TB1A684V025□#60V++                | A    | 0.68                                                    | 25           | 10              | 0.08          | 0.68          | 1.36           | 1.36         | 4                  | 6            | 8                    | 0.075                                    | 0.087          | 0.078         | 0.035          | 0.866         | 0.779          | 0.346         |                   |               |               | 0.078          | 0.035         | 0.866             | 0.779         | 0.346         |                |               |                   | 0.779         | 0.346 |  |  |
| TB1A684V025□#60V++                | A    | 0.68                                                    | 25           | 6               | 0.17          | 1.7           | 3.4            | 3.4          | 4                  | 6            | 6                    | 0.075                                    | 0.112          | 0.101         | 0.045          | 0.671         | 0.604          | 0.268         |                   |               |               | 0.101          | 0.045         | 0.671             | 0.604         | 0.268         |                |               |                   | 0.604         | 0.268 |  |  |
| TB1B684V025□#60V++                | B    | 0.68                                                    | 25           | 7.5             | 0.17          | 1.7           | 2.04           | 2.04         | 4                  | 6            | 6                    | 0.085                                    | 0.106          | 0.096         | 0.043          | 0.798         | 0.719          | 0.319         |                   |               |               | 0.096          | 0.043         | 0.798             | 0.719         | 0.319         |                |               |                   | 0.719         | 0.319 |  |  |
| TB1A105V025□#60V++                | A    | 1                                                       | 25           | 8               | 0.25          | 2.5           | 5              | 5            | 4                  | 6            | 8                    | 0.075                                    | 0.097          | 0.087         | 0.039          | 0.775         | 0.697          | 0.310         |                   |               |               | 0.087          | 0.039         | 0.775             | 0.697         | 0.310         |                |               |                   | 0.697         | 0.310 |  |  |
| TB1B105V025□#60V++                | B    | 1                                                       | 25           | 6.5             | 0.25          | 2.5           | 3              | 3            | 4                  | 6            | 6                    | 0.085                                    | 0.114          | 0.103         | 0.046          | 0.743         | 0.669          | 0.297         |                   |               |               | 0.103          | 0.046         | 0.743             | 0.669         | 0.297         |                |               |                   | 0.669         | 0.297 |  |  |
| TB1A155V025□#60V++                | A    | 1.5                                                     | 25           | 7.5             | 0.375         | 3.75          | 7.5            | 7.5          | 6                  | 8            | 10                   | 0.075                                    | 0.100          | 0.090         | 0.040          | 0.750         | 0.675          | 0.300         |                   |               |               | 0.090          | 0.040         | 0.750             | 0.675         | 0.300         |                |               |                   | 0.675         | 0.300 |  |  |
| TB1A155V025□#60V++                | A    | 1.5                                                     | 25           | 3               | 0.375         | 3.75          | 7.5            | 7.5          | 6                  | 8            | 10                   | 0.075                                    | 0.158          | 0.142         | 0.063          | 0.474         | 0.427          | 0.190         |                   |               |               | 0.158          | 0.063         | 0.474             | 0.427         | 0.190         |                |               |                   | 0.427         | 0.    |  |  |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.

| RATING & PART<br>NUMBER REFERENCE |  |  | Parametric Specifications by Rating per MIL-PRF-55365/4 |   |         |         |      |         |    |        |       |     | Typical Power Dissipation Data by Rating |     |     |     |     |        |     |     |     |     |                  |     |     |     |     |      |     |     |     |     |      |     |     |     |     |       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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|                                   |  |  | DC Rated Voltage                                        |   |         |         |      | ESR     |    |        |       |     | DCL max                                  |     |     |     |     | DF Max |     |     |     |     | Power Disipation |     |     |     |     | 25°C |     |     |     |     | 85°C |     |     |     |     | 125°C |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     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    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|                                   |  |  | Cap<br>@ 120Hz                                          | V | @ +85°C | @ +25°C | Ohms | @ +25°C | μA | +125°C | +25°C | (%) | (%)                                      | (%) | (%) | (%) | (%) | (%)    | (%) | (%) | (%) | (%) | (%)              | (%) | (%) | (%) | (%) | (%)  | (%) | (%) | (%) | (%) | (%)  | (%) | (%) | (%) | (%) | (%)   | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) | (%) |

| RATING & PART<br>NUMBER REFERENCE |                     | Parametric Specifications by Rating per MIL-PRF-55365/4 |          |             |         |       |        |       |         |     |     | Typical Power Dissipation Data by Rating |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------------------|---------------------|---------------------------------------------------------|----------|-------------|---------|-------|--------|-------|---------|-----|-----|------------------------------------------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                   |                     | DC Rated Voltage                                        |          |             |         |       | ESR    |       | DCL max |     |     | DF Max                                   |       | Power Disipation |       | 25°C  |       | 85°C  |       | 125°C |       | 25°C  |       | 85°C  |       | 125°C |       |
|                                   |                     | Cap @ 120Hz                                             | V @ 25°C | @ +85°C     | @ +25°C | +85°C | +125°C | (µA)  | (%)     | (%) | (%) | (%)                                      | (%)   | (%)              | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   |
| AVX                               | COTS-Plus P/N       | Case                                                    | µF       | Ohms @ 25°C | µA      | µA    | µA     | (%)   | (%)     | (%) | (%) | (%)                                      | (%)   | (%)              | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   | (%)   |
|                                   | TBJC225*035L#H@0V++ | C                                                       | 2.2      | 35          | 1       | 0.77  | 7.7    | 15.4  | 6       | 9   | 10  | 0.110                                    | 0.332 | 0.298            | 0.133 | 0.332 | 0.298 | 0.133 | 0.332 | 0.298 | 0.133 | 0.332 | 0.298 | 0.133 | 0.332 | 0.298 | 0.133 |
|                                   | TBJB335*035C#H@0V++ | B                                                       | 3.3      | 35          | 3.5     | 1.155 | 11.55  | 23.1  | 6       | 8   | 9   | 0.085                                    | 0.156 | 0.140            | 0.062 | 0.156 | 0.140 | 0.062 | 0.156 | 0.140 | 0.062 | 0.156 | 0.140 | 0.062 | 0.156 | 0.140 | 0.062 |
|                                   | TBJB335*035L#H@0V++ | B                                                       | 3.3      | 35          | 1       | 1.155 | 11.55  | 23.1  | 6       | 9   | 10  | 0.085                                    | 0.292 | 0.262            | 0.117 | 0.292 | 0.262 | 0.117 | 0.292 | 0.262 | 0.117 | 0.292 | 0.262 | 0.117 | 0.292 | 0.262 | 0.117 |
|                                   | TBJC335*035C#H@0V++ | C                                                       | 3.3      | 35          | 2.5     | 1.155 | 11.55  | 13.86 | 6       | 8   | 9   | 0.110                                    | 0.210 | 0.189            | 0.084 | 0.210 | 0.189 | 0.084 | 0.210 | 0.189 | 0.084 | 0.210 | 0.189 | 0.084 | 0.210 | 0.189 | 0.084 |
|                                   | TBJC335*035L#H@0V++ | C                                                       | 3.3      | 35          | 0.7     | 1.155 | 11.55  | 23.1  | 6       | 9   | 10  | 0.110                                    | 0.396 | 0.357            | 0.159 | 0.396 | 0.357 | 0.159 | 0.396 | 0.357 | 0.159 | 0.396 | 0.357 | 0.159 | 0.396 | 0.357 | 0.159 |
|                                   | TBJB475*035C#H@0V++ | B                                                       | 4.7      | 35          | 3.1     | 1.645 | 16.45  | 32.9  | 6       | 8   | 9   | 0.085                                    | 0.166 | 0.149            | 0.066 | 0.166 | 0.149 | 0.066 | 0.166 | 0.149 | 0.066 | 0.166 | 0.149 | 0.066 | 0.166 | 0.149 | 0.066 |
|                                   | TBJB475*035L#H@0V++ | B                                                       | 4.7      | 35          | 0.7     | 1.645 | 16.45  | 32.9  | 6       | 8   | 9   | 0.085                                    | 0.348 | 0.314            | 0.139 | 0.348 | 0.314 | 0.139 | 0.348 | 0.314 | 0.139 | 0.348 | 0.314 | 0.139 | 0.348 | 0.314 | 0.139 |
|                                   | TBJC475*035C#H@0V++ | C                                                       | 4.7      | 35          | 2.2     | 1.645 | 16.45  | 32.9  | 6       | 8   | 9   | 0.110                                    | 0.224 | 0.201            | 0.089 | 0.224 | 0.201 | 0.089 | 0.224 | 0.201 | 0.089 | 0.224 | 0.201 | 0.089 | 0.224 | 0.201 | 0.089 |
|                                   | TBJC475*035L#H@0V++ | C                                                       | 4.7      | 35          | 0.6     | 1.645 | 16.45  | 32.9  | 6       | 8   | 9   | 0.110                                    | 0.428 | 0.385            | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 |
|                                   | TBD475*035C#H@0V++  | D                                                       | 4.7      | 35          | 1.5     | 1.645 | 16.45  | 19.74 | 6       | 8   | 9   | 0.150                                    | 0.316 | 0.285            | 0.126 | 0.316 | 0.285 | 0.126 | 0.316 | 0.285 | 0.126 | 0.316 | 0.285 | 0.126 | 0.316 | 0.285 | 0.126 |
|                                   | TBD475*035L#H@0V++  | D                                                       | 4.7      | 35          | 0.5     | 1.645 | 16.45  | 32.9  | 6       | 8   | 9   | 0.150                                    | 0.548 | 0.493            | 0.219 | 0.548 | 0.493 | 0.219 | 0.548 | 0.493 | 0.219 | 0.548 | 0.493 | 0.219 | 0.548 | 0.493 | 0.219 |
|                                   | TBJC885*035C#H@0V++ | C                                                       | 6.8      | 35          | 1.8     | 2.38  | 23.8   | 47.6  | 6       | 8   | 9   | 0.110                                    | 0.247 | 0.222            | 0.099 | 0.247 | 0.222 | 0.099 | 0.247 | 0.222 | 0.099 | 0.247 | 0.222 | 0.099 | 0.247 | 0.222 | 0.099 |
|                                   | TBJC885*035L#H@0V++ | C                                                       | 6.8      | 35          | 0.35    | 2.38  | 23.8   | 47.6  | 6       | 8   | 9   | 0.110                                    | 0.561 | 0.505            | 0.224 | 0.561 | 0.505 | 0.224 | 0.561 | 0.505 | 0.224 | 0.561 | 0.505 | 0.224 | 0.561 | 0.505 | 0.224 |
|                                   | TBD885*035C#H@0V++  | D                                                       | 6.8      | 35          | 1.3     | 2.38  | 23.8   | 28.56 | 6       | 8   | 9   | 0.150                                    | 0.340 | 0.306            | 0.136 | 0.340 | 0.306 | 0.136 | 0.340 | 0.306 | 0.136 | 0.340 | 0.306 | 0.136 | 0.340 | 0.306 | 0.136 |
|                                   | TBD885*035L#H@0V++  | D                                                       | 6.8      | 35          | 0.5     | 2.38  | 23.8   | 47.6  | 6       | 8   | 9   | 0.150                                    | 0.548 | 0.493            | 0.219 | 0.548 | 0.493 | 0.219 | 0.548 | 0.493 | 0.219 | 0.548 | 0.493 | 0.219 | 0.548 | 0.493 | 0.219 |
|                                   | TBJC106*035C#H@0V++ | C                                                       | 10       | 35          | 1.6     | 3.5   | 35     | 70    | 6       | 8   | 9   | 0.110                                    | 0.262 | 0.236            | 0.105 | 0.262 | 0.236 | 0.105 | 0.262 | 0.236 | 0.105 | 0.262 | 0.236 | 0.105 | 0.262 | 0.236 | 0.105 |
|                                   | TBJC106*035L#H@0V++ | C                                                       | 10       | 35          | 0.6     | 3.5   | 35     | 70    | 6       | 8   | 9   | 0.110                                    | 0.428 | 0.385            | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 |
|                                   | TBD106*035C#H@0V++  | D                                                       | 10       | 35          | 1       | 3.5   | 35     | 70    | 6       | 8   | 9   | 0.150                                    | 0.387 | 0.349            | 0.155 | 0.387 | 0.349 | 0.155 | 0.387 | 0.349 | 0.155 | 0.387 | 0.349 | 0.155 | 0.387 | 0.349 | 0.155 |
|                                   | TBD106*035L#H@0V++  | D                                                       | 10       | 35          | 0.3     | 3.5   | 35     | 70    | 6       | 8   | 9   | 0.150                                    | 0.707 | 0.636            | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 |
|                                   | TBJE106*035C#H@0V++ | E                                                       | 10       | 35          | 0.25    | 3.5   | 35     | 70    | 6       | 8   | 9   | 0.165                                    | 0.812 | 0.731            | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 |
|                                   | TBJE106*035L#H@0V++ | E                                                       | 10       | 35          | 0.2     | 3.5   | 35     | 70    | 6       | 8   | 9   | 0.165                                    | 0.908 | 0.817            | 0.363 | 0.908 | 0.817 | 0.363 | 0.908 | 0.817 | 0.363 | 0.908 | 0.817 | 0.363 | 0.908 | 0.817 | 0.363 |
|                                   | TBJC156*035C#H@0V++ | C                                                       | 15       | 35          | 1.4     | 5.25  | 52.5   | 105   | 6       | 8   | 9   | 0.110                                    | 0.280 | 0.252            | 0.112 | 0.280 | 0.252 | 0.112 | 0.280 | 0.252 | 0.112 | 0.280 | 0.252 | 0.112 | 0.280 | 0.252 | 0.112 |
|                                   | TBJC156*035L#H@0V++ | C                                                       | 15       | 35          | 0.35    | 5.25  | 52.5   | 105   | 6       | 8   | 9   | 0.110                                    | 0.561 | 0.505            | 0.224 | 0.561 | 0.505 | 0.224 | 0.561 | 0.505 | 0.224 | 0.561 | 0.505 | 0.224 | 0.561 | 0.505 | 0.224 |
|                                   | TBD156*035C#H@0V++  | D                                                       | 15       | 35          | 0.9     | 5.25  | 52.5   | 105   | 6       | 8   | 9   | 0.150                                    | 0.408 | 0.367            | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 |
|                                   | TBD156*035L#H@0V++  | D                                                       | 15       | 35          | 0.3     | 5.25  | 52.5   | 105   | 6       | 8   | 9   | 0.150                                    | 0.707 | 0.636            | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 |
|                                   | TBJD226*035C#H@0V++ | D                                                       | 22       | 35          | 0.9     | 7.7   | 77     | 154   | 6       | 8   | 9   | 0.150                                    | 0.408 | 0.367            | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 |
|                                   | TBJD226*035L#H@0V++ | D                                                       | 22       | 35          | 0.4     | 7.7   | 77     | 154   | 6       | 8   | 9   | 0.150                                    | 0.612 | 0.551            | 0.245 | 0.612 | 0.551 | 0.245 | 0.612 | 0.551 | 0.245 | 0.612 | 0.551 | 0.245 | 0.612 | 0.551 | 0.245 |
|                                   | TBJE226*035C#H@0V++ | E                                                       | 22       | 35          | 0.9     | 7.7   | 77     | 154   | 6       | 8   | 9   | 0.165                                    | 0.428 | 0.385            | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 | 0.428 | 0.385 | 0.171 |
|                                   | TBJE226*035L#H@0V++ | E                                                       | 22       | 35          | 0.3     | 7.7   | 77     | 154   | 6       | 8   | 9   | 0.165                                    | 0.742 | 0.667            | 0.297 | 0.742 | 0.667 | 0.297 | 0.742 | 0.667 | 0.297 | 0.742 | 0.667 | 0.297 | 0.742 | 0.667 | 0.297 |
|                                   | TBD336*035C#H@0V++  | D                                                       | 33       | 35          | 0.9     | 11.55 | 115.5  | 231   | 6       | 8   | 9   | 0.150                                    | 0.408 | 0.367            | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 | 0.408 | 0.367 | 0.163 |
|                                   | TBD336*035L#H@0V++  | D                                                       | 33       | 35          | 0.3     | 11.55 | 115.5  | 231   | 6       | 8   | 9   | 0.150                                    | 0.707 | 0.636            | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 | 0.707 | 0.636 | 0.283 |
|                                   | TBJE336*035C#H@0V++ | E                                                       | 33       | 35          | 0.25    | 11.55 | 115.5  | 231   | 6       | 8   | 9   | 0.165                                    | 0.812 | 0.731            | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 |
|                                   | TBJE336*035L#H@0V++ | E                                                       | 33       | 35          | 0.1     | 11.55 | 115.5  | 231   | 6       | 8   | 9   | 0.165                                    | 1.285 | 1.156            | 0.514 | 1.285 | 1.156 | 0.514 | 1.285 | 1.156 | 0.514 | 1.285 | 1.156 | 0.514 | 1.285 | 1.156 | 0.514 |
|                                   | TBJA336*035L#H@0V++ | V                                                       | 33       | 35          | 0.2     | 11.55 | 115.5  | 231   | 6       | 8   | 9   | 0.250                                    | 1.118 | 1.006            | 0.447 | 1.118 | 1.006 | 0.447 | 1.118 | 1.006 | 0.447 | 1.118 | 1.006 | 0.447 | 1.118 | 1.006 | 0.447 |
|                                   | TBJA336*035L#H@0V++ | V                                                       | 33       | 35          | 0.2     | 11.55 | 115.5  | 231   | 6       | 8   | 9   | 0.250                                    | 1.118 | 1.006            | 0.447 | 1.118 | 1.006 | 0.447 | 1.118 | 1.006 | 0.447 | 1.118 | 1.006 | 0.447 | 1.118 | 1.006 | 0.447 |
|                                   | TBJE476*035C#H@0V++ | E                                                       | 47       | 35          | 0.25    | 16.45 | 164.5  | 329   | 6       | 8   | 10  | 0.165                                    | 0.812 | 0.731            | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 | 0.812 | 0.731 | 0.325 |
|                                   | TBJE476*035L#H@0V++ | E                                                       | 47       | 35          | 0.2     | 16.45 | 164.5  | 329   | 6       | 8   | 9   | 0.165                                    | 1.645 | 1.465            | 0.612 | 1.645 | 1.465 | 0.612 | 1.645 | 1.465 | 0.612 | 1.645 | 1.465 | 0.612 | 1.645 | 1.465 | 0.612 |
|                                   | TBJA476*035C#H@0V++ | V                                                       | 47       | 35          | 0.4     | 16.45 | 164.5  | 329   | 6       | 8   | 9   | 0.250                                    | 0.791 | 0.712            | 0.316 | 0.791 | 0.712 | 0.316 | 0     |       |       |       |       |       |       |       |       |

# TBJ Series

## COTS-Plus



| RATING & PART<br>NUMBER REFERENCE |      | Parametric Specifications by Rating per MIL-PRF-55365/4 |                     |                 |               |                |              |                  |                      |       |                                 | Typical Power Dissipation Data by Rating |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
|-----------------------------------|------|---------------------------------------------------------|---------------------|-----------------|---------------|----------------|--------------|------------------|----------------------|-------|---------------------------------|------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
|                                   |      | Cap<br>@ 120Hz                                          | DC Rated<br>Voltage | ESR<br>@ 100kHz | DCL max       |                | DF Max       |                  | Power<br>Dissipation |       | 25°C                            |                                          | 85°C                            |                                 | 125°C                           |                                 | 25°C                            |                                 | 85°C                            |                                 | 125°C                           |
| AVX COTS-Plus P/N                 | Case | µF<br>@ 25°C                                            | V<br>@ +85°C        | µF<br>@ +25°C   | (µA)<br>+85°C | (µA)<br>+125°C | (%)<br>+25°C | (%)<br>+85/125°C | (%)<br>-55°C         | W     | A<br>(100kHz)<br>Ripple Current | A<br>(100kHz)<br>Ripple Current          | A<br>(100kHz)<br>Ripple Current | V<br>(100kHz)<br>Ripple Voltage | V<br>(100kHz)<br>Ripple Voltage | V<br>(100kHz)<br>Ripple Voltage | A<br>(100kHz)<br>Ripple Current | V<br>(100kHz)<br>Ripple Voltage | V<br>(100kHz)<br>Ripple Voltage | A<br>(100kHz)<br>Ripple Current | V<br>(100kHz)<br>Ripple Voltage |
| TBJD225050C□□#00V++               | D    | 2.2                                                     | 50                  | 1.1             | 11            | 13.2           | 6            | 8                | 9                    | 0.150 | 0.245                           | 0.220                                    | 0.098                           | 0.612                           | 0.551                           | 0.245                           | 0.098                           | 0.612                           | 0.551                           | 0.245                           | 0.098                           |
| TBJD225050L□□#00V++               | D    | 2.2                                                     | 50                  | 1.1             | 11            | 22             | 6            | 9                | 10                   | 0.150 | 0.354                           | 0.318                                    | 0.141                           | 0.424                           | 0.382                           | 0.170                           | 0.141                           | 0.424                           | 0.382                           | 0.141                           | 0.424                           |
| TBJD335050C□□#00V++               | D    | 3.3                                                     | 50                  | 1.65            | 16.5          | 19.8           | 6            | 9                | 9                    | 0.150 | 0.274                           | 0.246                                    | 0.110                           | 0.548                           | 0.493                           | 0.219                           | 0.110                           | 0.548                           | 0.493                           | 0.110                           | 0.548                           |
| TBJD335050L□□#00V++               | D    | 3.3                                                     | 50                  | 1.65            | 16.5          | 33             | 6            | 9                | 10                   | 0.150 | 0.433                           | 0.390                                    | 0.173                           | 0.346                           | 0.312                           | 0.139                           | 0.173                           | 0.346                           | 0.312                           | 0.139                           | 0.346                           |
| TBJD475050C□□#00V++               | D    | 4.7                                                     | 50                  | 2.35            | 23.5          | 28.2           | 6            | 9                | 9                    | 0.150 | 0.316                           | 0.285                                    | 0.126                           | 0.474                           | 0.427                           | 0.190                           | 0.126                           | 0.474                           | 0.427                           | 0.190                           | 0.427                           |
| TBJD475050L□□#00V++               | D    | 4.7                                                     | 50                  | 2.35            | 23.5          | 47             | 6            | 9                | 9                    | 0.150 | 0.707                           | 0.636                                    | 0.283                           | 0.212                           | 0.191                           | 0.085                           | 0.283                           | 0.212                           | 0.191                           | 0.283                           | 0.212                           |
| TBJD685050C□□#00V++               | D    | 6.8                                                     | 50                  | 1               | 34            | 68             | 6            | 9                | 9                    | 0.150 | 0.387                           | 0.349                                    | 0.150                           | 0.387                           | 0.349                           | 0.155                           | 0.150                           | 0.387                           | 0.349                           | 0.155                           | 0.387                           |
| TBJD685050L□□#00V++               | D    | 6.8                                                     | 50                  | 0.5             | 34            | 68             | 6            | 9                | 9                    | 0.150 | 0.548                           | 0.493                                    | 0.219                           | 0.274                           | 0.246                           | 0.110                           | 0.493                           | 0.219                           | 0.274                           | 0.246                           | 0.110                           |
| TBJE106050C□□#00V++               | E    | 10                                                      | 50                  | 5               | 50            | 100            | 6            | 9                | 10                   | 0.165 | 0.574                           | 0.517                                    | 0.230                           | 0.287                           | 0.259                           | 0.115                           | 0.517                           | 0.230                           | 0.287                           | 0.259                           | 0.115                           |
| TBJE106050L□□#00V++               | E    | 10                                                      | 50                  | 5               | 50            | 100            | 6            | 9                | 10                   | 0.165 | 0.642                           | 0.578                                    | 0.257                           | 0.257                           | 0.257                           | 0.103                           | 0.578                           | 0.257                           | 0.257                           | 0.257                           | 0.103                           |
| TBM106050C□□#00V++                | V    | 10                                                      | 50                  | 0.65            | 50            | 100            | 3            |                  |                      | 0.250 | 0.620                           | 0.558                                    | 0.248                           | 0.403                           | 0.363                           | 0.161                           | 0.558                           | 0.248                           | 0.403                           | 0.363                           | 0.161                           |
| TBD156050C□□#00V++                | D    | 15                                                      | 50                  | 7.5             | 75            | 150            | 4            | 6                | 6                    | 0.150 | 0.500                           | 0.450                                    | 0.200                           | 0.300                           | 0.270                           | 0.120                           | 0.450                           | 0.300                           | 0.270                           | 0.450                           | 0.300                           |
| TBJE156050C□□#00V++               | E    | 15                                                      | 50                  | 0.6             | 7.5           | 150            | 8            | 10               | 12                   | 0.165 | 0.524                           | 0.472                                    | 0.210                           | 0.315                           | 0.283                           | 0.126                           | 0.524                           | 0.210                           | 0.315                           | 0.283                           | 0.126                           |
| TBJE156050L□□#00V++               | E    | 15                                                      | 50                  | 0.25            | 7.5           | 150            | 6            | 9                | 10                   | 0.165 | 0.812                           | 0.731                                    | 0.325                           | 0.163                           | 0.183                           | 0.081                           | 0.731                           | 0.325                           | 0.163                           | 0.183                           | 0.081                           |
| TBM225050C□□#00V++                | V    | 22                                                      | 50                  | 11              | 110           | 220            | 8            | 10               | 12                   | 0.250 | 0.645                           | 0.581                                    | 0.258                           | 0.387                           | 0.349                           | 0.155                           | 0.581                           | 0.258                           | 0.387                           | 0.349                           | 0.155                           |
| TBM225050L□□#00V++                | V    | 22                                                      | 50                  | 0.39            | 110           | 220            | 8            | 10               | 12                   | 0.250 | 0.801                           | 0.721                                    | 0.320                           | 0.312                           | 0.281                           | 0.125                           | 0.801                           | 0.312                           | 0.281                           | 0.801                           | 0.125                           |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5V RMS with a maximum DC bias of 2.2 volts. DCL is measured at rated voltage after 5 minutes.

**NOTE: AVX reserves the right to supply a higher voltage rating or tighter tolerance part in the same case size, to the same reliability standards.**

