

# TAJ Series

## Low Profile



### FEATURES

- General purpose SMT chip tantalum series
- CV range: 0.10-1000µF / 2.5-50V
- 10 case sizes in low profile option available



### APPLICATIONS

- Entertainment/Infotainment systems

### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W±0.20 (0.008)<br>-0.10 (0.004) | H Max.       | W <sub>1</sub> ±0.20 (0.008) | A±0.30 (0.012)<br>-0.20 (0.008) | S Min.       |
|------|----------|------------|----------------|---------------------------------|--------------|------------------------------|---------------------------------|--------------|
| F    | 2312     | 6032-20    | 6.00 (0.236)   | 3.20 (0.126)                    | 2.00 (0.079) | 2.20 (0.087)                 | 1.30 (0.051)                    | 2.90 (0.114) |
| H    | 1210     | 3528-15    | 3.50 (0.138)   | 2.80 (0.110)                    | 1.50 (0.059) | 2.20 (0.087)                 | 0.80 (0.031)                    | 1.40 (0.055) |
| K    | 1206     | 3216-10    | 3.20 (0.126)   | 1.60 (0.063)                    | 1.00 (0.039) | 1.20 (0.047)                 | 0.80 (0.031)                    | 1.10 (0.043) |
| P    | 0805     | 2012-15    | 2.05 (0.081)   | 1.35 (0.053)                    | 1.50 (0.059) | 1.00±0.10 (0.039±0.004)      | 0.50 (0.020)                    | 0.85 (0.033) |
| R    | 0805     | 2012-12    | 2.05 (0.081)   | 1.30 (0.051)                    | 1.20 (0.047) | 1.00±0.10 (0.039±0.004)      | 0.50 (0.020)                    | 0.85 (0.033) |
| S    | 1206     | 3216-12    | 3.20 (0.126)   | 1.60 (0.063)                    | 1.20 (0.047) | 1.20 (0.047)                 | 0.80 (0.031)                    | 1.10 (0.043) |
| T    | 1210     | 3528-12    | 3.50 (0.138)   | 2.80 (0.110)                    | 1.20 (0.047) | 2.20 (0.087)                 | 0.80 (0.031)                    | 1.40 (0.055) |
| W    | 2312     | 6032-15    | 6.00 (0.236)   | 3.20 (0.126)                    | 1.50 (0.059) | 2.20 (0.087)                 | 1.30 (0.051)                    | 2.90 (0.114) |
| X    | 2917     | 7343-15    | 7.30 (0.287)   | 4.30 (0.169)                    | 1.50 (0.059) | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |
| Y    | 2917     | 7343-20    | 7.30 (0.287)   | 4.30 (0.169)                    | 2.00 (0.079) | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |

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



### MARKING

#### F, H, K, S, T, W, X, Y CASE



#### P, R CASE



### HOW TO ORDER

| TAJ  | C                            | 107                                                                                                                                      | M                                 | 010                                                                                                                                                      | R                                                                                                                                                                            | NJ                                           | —                                                                                                        |
|------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Type | Case Size<br>See table above | Capacitance Code<br>pF code: 1st two digits represent significant figures<br>3rd digit represents multiplier (number of zeros to follow) | Tolerance<br>K = ±10%<br>M = ±20% | Rated DC Voltage<br>002 = 2.5Vdc<br>004 = 4Vdc<br>006 = 6.3Vdc<br>010 = 10Vdc<br>016 = 16Vdc<br>020 = 20Vdc<br>025 = 25Vdc<br>035 = 35Vdc<br>050 = 50Vdc | Packaging<br>R = Pure Tin 7" Reel<br>S = Pure Tin 13" Reel<br>A = Gold Plating 7" Reel<br>B = Gold Plating 13" Reel<br>A, B = on selected codes, please contact manufacturer | Specification Suffix<br>NJ = Standard Suffix | Additional characters may be added for special requirements<br>V = Dry pack Option (selected codes only) |

### TECHNICAL SPECIFICATIONS

Technical Data:

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

Capacitance Range: 0.10 µF to 1000 µF

Capacitance Tolerance: ±10%; ±20%

| Rated Voltage (V <sub>R</sub> )    | ≤ +85°C:  | 2.5 | 4   | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
|------------------------------------|-----------|-----|-----|-----|----|----|----|----|----|----|
| Category Voltage (V <sub>C</sub> ) | ≤ +125°C: | 1.7 | 2.7 | 4   | 7  | 10 | 13 | 17 | 23 | 33 |
| Surge Voltage (V <sub>S</sub> )    | ≤ +85°C:  | 3.3 | 5.2 | 8   | 13 | 20 | 26 | 32 | 46 | 65 |
| Surge Voltage (V <sub>S</sub> )    | ≤ +125°C: | 2.2 | 3.4 | 5   | 8  | 13 | 16 | 20 | 28 | 40 |

Temperature Range: -55°C to +125°C

Reliability: 1% per 1000 hours at 85°C, V<sub>R</sub> with 0.1Ω/V series impedance, 60% confidence level

Termination Finished: Sn Plating (standard), Gold and SnPb Plating upon request

For AEC-Q200 availability, please contact AVX



### CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Rated voltage DC ( $V_R$ ) to 85°C |                           |                           |                           |                     |         |         |         |                         |
|-------------|------|------------------------------------|---------------------------|---------------------------|---------------------------|---------------------|---------|---------|---------|-------------------------|
| $\mu F$     | Code | 2.5V (e)                           | 4V (G)                    | 6.3V (J)                  | 10V (A)                   | 16V (C)             | 20V (D) | 25V (E) | 35V (V) | 50V (T)                 |
| 0.10        | 104  |                                    |                           |                           |                           |                     | R/S     |         | R/S     | S                       |
| 0.15        | 154  |                                    |                           |                           |                           |                     | R/S     | R       | R/S     | S                       |
| 0.22        | 224  |                                    |                           |                           |                           |                     | R/S     | R       | R/S     | P/R/S                   |
| 0.33        | 334  |                                    |                           |                           |                           |                     | R/S     | R       | R/S     | P/R <sup>(M)</sup> /S/T |
| 0.47        | 474  |                                    |                           |                           |                           |                     | R/S     | R/S     | R/S/T   | S/T                     |
| 0.68        | 684  |                                    |                           |                           |                           | R/S                 | R/S/T   | R/S     | P/S/T   |                         |
| 1.0         | 105  |                                    |                           |                           | R/S                       | R/S/T               | R/S/T   | P/R/S   | P/S/T   | W                       |
| 1.5         | 155  |                                    |                           | R/S                       | R/S                       | R/S                 | P/R/S/T | P/S/T   | T       | W                       |
| 2.2         | 225  |                                    | R/S                       | R/S                       | R/S                       | R/S/T               | P/R/S/T | T       | T       | W                       |
| 3.3         | 335  |                                    | R/S                       | R/S                       | R/S/T                     | R/S/T               | T       | T/W     | W       | Y                       |
| 4.7         | 475  | R                                  | R/S                       | R/S/T                     | R/S/T                     | K/P/S/T             | T       | T/W     | W       | Y                       |
| 6.8         | 685  | R                                  | R/S/T                     | R/S/T                     | P/R/S/T                   | S/T                 | T       | W       | Y       | Y                       |
| 10          | 106  | R/S                                | R/S/T                     | P/R/S/T                   | K/P/R <sup>(M)</sup> /S/T | T/W                 | W       | W       | X/Y     |                         |
| 15          | 156  | R                                  | R/S/T                     | K/P/R/S/T                 | S/T/W                     | T <sup>(M)</sup> /W | W       | Y       | Y       |                         |
| 22          | 226  | P/R                                | K/P/R/S/T                 | K/P <sup>(M)</sup> /S/T/W | T/W                       | W                   | W/Y     | Y       | Y       |                         |
| 33          | 336  | K/P/S                              | K/P <sup>(M)</sup> /S/T/W | T/W                       | W                         | W/Y                 | X/Y     | Y       |         |                         |
| 47          | 476  | P <sup>(M)</sup> /S                | T/W                       | T/W                       | H/W/Y                     | W/X/Y               | X/Y     |         |         |                         |
| 68          | 686  | T                                  | T/W                       | W                         | W/Y                       | F/X/Y               | Y       |         |         |                         |
| 100         | 107  | T/W                                | T <sup>(M)</sup> /W       | W/Y                       | W/X/Y                     | F <sup>(M)</sup> /Y |         |         |         |                         |
| 150         | 157  | T <sup>(M)</sup> /W                | W/Y                       | W/X/Y                     | F/X <sup>(M)</sup> /Y     | Y <sup>(M)</sup>    |         |         |         |                         |
| 220         | 227  | W/Y                                | W/X/Y                     | F/X/Y                     | Y                         |                     |         |         |         |                         |
| 330         | 337  | W <sup>(M)</sup> /Y                | F/X/Y                     | Y                         |                           |                     |         |         |         |                         |
| 470         | 477  | F/Y                                | Y                         | Y                         |                           |                     |         |         |         |                         |
| 680         | 687  | Y                                  | Y <sup>(M)</sup>          |                           |                           |                     |         |         |         |                         |
| 1000        | 108  | Y <sup>(M)</sup>                   |                           |                           |                           |                     |         |         |         |                         |

Released codes <sup>(M tolerance only)</sup>

Engineering samples - please contact manufacturer

\*Codes under development - subject to change

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

### RATINGS & PART NUMBER REFERENCE

| AVX<br>Part No. | Case<br>Size | Capacitance<br>(µF) | Rated<br>Voltage<br>(V) | Rated<br>Temperature<br>(°C) | Category<br>Voltage<br>(V) | Category<br>Temperature<br>(°C) | DCL<br>(µA)<br>Max. | DF<br>%<br>Max. | ESR<br>Max. (Ω)<br>@ 100kHz | MSL             | 100kHz RMS Current (mA) |      |       |
|-----------------|--------------|---------------------|-------------------------|------------------------------|----------------------------|---------------------------------|---------------------|-----------------|-----------------------------|-----------------|-------------------------|------|-------|
|                 |              |                     |                         |                              |                            |                                 |                     |                 |                             |                 | 25°C                    | 85°C | 125°C |
| 2.5 Volt @ 85°C |              |                     |                         |                              |                            |                                 |                     |                 |                             |                 |                         |      |       |
| TAJR475*002#NJ  | R            | 4.7                 | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 6               | 20                          | 1               | 52                      | 47   | 21    |
| TAJR685*002#NJ  | R            | 6.8                 | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 6               | 20                          | 1               | 52                      | 47   | 21    |
| TAJR106*002#NJ  | R            | 10                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 8               | 4.5                         | 1               | 111                     | 99   | 44    |
| TAJS106*002#NJ  | S            | 10                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 6               | 8                           | 1               | 90                      | 81   | 36    |
| TAJR156*002#NJ  | R            | 15                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 8               | 4.1                         | 1               | 116                     | 104  | 46    |
| TAJP226*002#NJ  | P            | 22                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 8               | 3.5                         | 1               | 131                     | 118  | 52    |
| TAJR226*002#NJ  | R            | 22                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.5                 | 8               | 3.8                         | 1               | 120                     | 108  | 48    |
| TAJK336*002#NJ  | K            | 33                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.8                 | 8               | 1.7                         | 1               | 188                     | 169  | 75    |
| TAJP336*002#NJ  | P            | 33                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.7                 | 8               | 3.5                         | 1               | 131                     | 118  | 52    |
| TAJS336*002#NJ  | S            | 33                  | 2.5                     | 85                           | 1.7                        | 125                             | 0.7                 | 8               | 1.5                         | 1               | 208                     | 187  | 83    |
| TAJP476M002#NJ  | P            | 47                  | 2.5                     | 85                           | 1.7                        | 125                             | 1.2                 | 12              | 3.2                         | 1               | 137                     | 123  | 55    |
| TAJS476*002#NJ  | S            | 47                  | 2.5                     | 85                           | 1.7                        | 125                             | 1.2                 | 8               | 1.6                         | 1               | 202                     | 181  | 81    |
| TAJT686*002#NJ  | T            | 68                  | 2.5                     | 85                           | 1.7                        | 125                             | 1.4                 | 8               | 1.5                         | 1               | 231                     | 208  | 92    |
| TAJT107*002#NJ  | T            | 100                 | 2.5                     | 85                           | 1.7                        | 125                             | 2.5                 | 15              | 1.3                         | 1               | 248                     | 223  | 99    |
| TAJW107*002#NJ  | W            | 100                 | 2.5                     | 85                           | 1.7                        | 125                             | 2.5                 | 8               | 0.4                         | 1               | 474                     | 427  | 190   |
| TAJT157M002#NJ  | T            | 150                 | 2.5                     | 85                           | 1.7                        | 125                             | 3.8                 | 18              | 1.2                         | 1               | 258                     | 232  | 103   |
| TAJW157*002#NJ  | W            | 150                 | 2.5                     | 85                           | 1.7                        | 125                             | 3.8                 | 8               | 0.3                         | 1               | 548                     | 493  | 219   |
| TAJW227*002#NJ  | W            | 220                 | 2.5                     | 85                           | 1.7                        | 125                             | 5.5                 | 8               | 0.3                         | 1               | 548                     | 493  | 219   |
| TAJY227*002#NJ  | Y            | 220                 | 2.5                     | 85                           | 1.7                        | 125                             | 5.5                 | 8               | 0.3                         | 1 <sup>1)</sup> | 645                     | 581  | 258   |
| TAJW337M002#NJ  | W            | 330                 | 2.5                     | 85                           | 1.7                        | 125                             | 8.2                 | 12              | 0.3                         | 1               | 548                     | 493  | 219   |
| TAJY337*002#NJ  | Y            | 330                 | 2.5                     | 85                           | 1.7                        | 125                             | 8.2                 | 8               | 0.3                         | 1 <sup>1)</sup> | 645                     | 581  | 258   |
| TAJF477*002#NJ  | F            | 470                 | 2.5                     | 85                           | 1.7                        | 125                             | 11.8                | 12              | 0.3                         | 1               | 577                     | 520  | 231   |
| TAJY477*002#NJ  | Y            | 470                 | 2.5                     | 85                           | 1.7                        | 125                             | 11                  | 12              | 0.2                         | 1 <sup>1)</sup> | 791                     | 712  | 316   |
| TAJY687*002#NJ  | Y            | 680                 | 2.5                     | 85                           | 1.7                        | 125                             | 17                  | 12              | 0.2                         | 1 <sup>1)</sup> | 791                     | 712  | 316   |
| TAJY108M002#NJ  | Y            | 1000                | 2.5                     | 85                           | 1.7                        | 125                             | 25                  | 30              | 0.2                         | 1 <sup>1)</sup> | 791                     | 712  | 316   |
| 4 Volt @ 85°C   |              |                     |                         |                              |                            |                                 |                     |                 |                             |                 |                         |      |       |
| TAJR225*004#NJ  | R            | 2.2                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 25                          | 1               | 47                      | 42   | 19    |
| TAJS225*004#NJ  | S            | 2.2                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 25                          | 1               | 51                      | 46   | 20    |
| TAJR335*004#NJ  | R            | 3.3                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 20                          | 1               | 52                      | 47   | 21    |
| TAJS335*004#NJ  | S            | 3.3                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 18                          | 1               | 60                      | 54   | 24    |
| TAJR475*004#NJ  | R            | 4.7                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 12                          | 1               | 68                      | 61   | 27    |
| TAJS475*004#NJ  | S            | 4.7                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 10                          | 1               | 81                      | 73   | 32    |
| TAJR685*004#NJ  | R            | 6.8                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 5.2                         | 1               | 103                     | 93   | 41    |
| TAJS685*004#NJ  | S            | 6.8                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 8                           | 1               | 90                      | 81   | 36    |
| TAJT685*004#NJ  | T            | 6.8                 | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 6                           | 1               | 115                     | 104  | 46    |
| TAJR106*004#NJ  | R            | 10                  | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 7                           | 1               | 89                      | 80   | 35    |
| TAJS106*004#NJ  | S            | 10                  | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 6                           | 1               | 104                     | 94   | 42    |
| TAJT106*004#NJ  | T            | 10                  | 4                       | 85                           | 2.7                        | 125                             | 0.5                 | 6               | 5                           | 1               | 126                     | 114  | 51    |
| TAJR156*004#NJ  | R            | 15                  | 4                       | 85                           | 2.7                        | 125                             | 0.6                 | 8               | 4                           | 1               | 117                     | 106  | 47    |
| TAJS156*004#NJ  | S            | 15                  | 4                       | 85                           | 2.7                        | 125                             | 0.6                 | 8               | 4                           | 1               | 127                     | 115  | 51    |
| TAJT156*004#NJ  | T            | 15                  | 4                       | 85                           | 2.7                        | 125                             | 0.6                 | 6               | 2                           | 1               | 200                     | 180  | 80    |
| TAJK226*004#NJ  | K            | 22                  | 4                       | 85                           | 2.7                        | 125                             | 0.9                 | 8               | 1.8                         | 1               | 183                     | 164  | 73    |
| TAJP226*004#NJ  | P            | 22                  | 4                       | 85                           | 2.7                        | 125                             | 0.9                 | 8               | 4                           | 1               | 122                     | 110  | 49    |
| TAJR226*004#NJ  | R            | 22                  | 4                       | 85                           | 2.7                        | 125                             | 0.9                 | 8               | 3.8                         | 1               | 120                     | 108  | 48    |
| TAJS226*004#NJ  | S            | 22                  | 4                       | 85                           | 2.7                        | 125                             | 0.9                 | 8               | 3.5                         | 1               | 136                     | 123  | 55    |
| TAJT226*004#NJ  | T            | 22                  | 4                       | 85                           | 2.7                        | 125                             | 0.9                 | 6               | 1.9                         | 1               | 205                     | 185  | 82    |
| TAJK336*004#NJ  | K            | 33                  | 4                       | 85                           | 2.7                        | 125                             | 1.3                 | 10              | 1.7                         | 1               | 188                     | 169  | 75    |
| TAJP336M004#NJ  | P            | 33                  | 4                       | 85                           | 2.7                        | 125                             | 1.3                 | 8               | 2.8                         | 1               | 146                     | 132  | 59    |
| TAJS336*004#NJ  | S            | 33                  | 4                       | 85                           | 2.7                        | 125                             | 1.3                 | 8               | 1.7                         | 1               | 196                     | 176  | 78    |
| TAJT336*004#NJ  | T            | 33                  | 4                       | 85                           | 2.7                        | 125                             | 1.3                 | 6               | 1.7                         | 1               | 217                     | 195  | 87    |
| TAJW336*004#NJ  | W            | 33                  | 4                       | 85                           | 2.7                        | 125                             | 1.3                 | 6               | 0.6                         | 1               | 387                     | 349  | 155   |
| TAJT476*004#NJ  | T            | 47                  | 4                       | 85                           | 2.7                        | 125                             | 1.9                 | 10              | 1.6                         | 1               | 224                     | 201  | 89    |
| TAJW476*004#NJ  | W            | 47                  | 4                       | 85                           | 2.7                        | 125                             | 1.9                 | 6               | 0.5                         | 1               | 424                     | 382  | 170   |
| TAJT686*004#NJ  | T            | 68                  | 4                       | 85                           | 2.7                        | 125                             | 2.7                 | 15              | 1.5                         | 1               | 231                     | 208  | 92    |
| TAJW686*004#NJ  | W            | 68                  | 4                       | 85                           | 2.7                        | 125                             | 2.7                 | 6               | 0.4                         | 1               | 474                     | 427  | 190   |
| TAJT107M004#NJ  | T            | 100                 | 4                       | 85                           | 2.7                        | 125                             | 4                   | 14              | 1.4                         | 1               | 239                     | 215  | 96    |
| TAJW107*004#NJ  | W            | 100                 | 4                       | 85                           | 2.7                        | 125                             | 4                   | 6               | 0.4                         | 1               | 474                     | 427  | 190   |
| TAJW157*004#NJ  | W            | 150                 | 4                       | 85                           | 2.7                        | 125                             | 6                   | 6               | 0.5                         | 1               | 424                     | 382  | 170   |
| TAJY157*004#NJ  | Y            | 150                 | 4                       | 85                           | 2.7                        | 125                             | 6                   | 6               | 0.4                         | 1 <sup>1)</sup> | 559                     | 503  | 224   |
| TAJW227*004#NJ  | W            | 220                 | 4                       | 85                           | 2.7                        | 125                             | 8.8                 | 8               | 0.3                         | 1               | 548                     | 493  | 219   |
| TAJX227*004#NJ  | X            | 220                 | 4                       | 85                           | 2.7                        | 125                             | 8.8                 | 8               | 0.9                         | 1 <sup>1)</sup> | 577                     | 520  | 231   |
| TAJY227*004#NJ  | Y            | 220                 | 4                       | 85                           | 2.7                        | 125                             | 8.8                 | 8               | 0.3                         | 1 <sup>1)</sup> | 645                     | 581  | 258   |
| TAJF337*004#NJ  | F            | 330                 | 4                       | 85                           | 2.7                        | 125                             | 13.2                | 10              | 0.3                         | 1               | 577                     | 520  | 231   |
| TAJX337*004#NJ  | X            | 330                 | 4                       | 85                           | 2.7                        | 125                             | 13.2                | 8               | 0.3                         | 1 <sup>1)</sup> | 577                     | 520  | 231   |
| TAJY337*004#NJ  | Y            | 330                 | 4                       | 85                           | 2.7                        | 125                             | 13.2                | 12              | 0.4                         | 1 <sup>1)</sup> | 559                     | 503  | 224   |
| TAJY477*004#NJ  | Y            | 470                 | 4                       | 85                           | 2.7                        | 125                             | 18.8                | 14              | 0.4                         | 1 <sup>1)</sup> | 559                     | 503  | 224   |
| TAJY687M004#NJ  | Y            | 680                 | 4                       | 85                           | 2.7                        | 125                             | 27.2                | 25              | 0.2                         | 1 <sup>1)</sup> | 791                     | 712  | 316   |
| 6.3 Volt @ 85°C |              |                     |                         |                              |                            |                                 |                     |                 |                             |                 |                         |      |       |
| TAJR155*006#NJ  | R            | 1.5                 | 6.3                     | 85                           | 4                          | 125                             | 0.5                 | 6               | 25                          | 1               | 47                      | 42   | 19    |
| TAJS155*006#NJ  | S            | 1.5                 | 6.3                     | 85                           | 4                          | 125                             | 0.5                 | 6               | 25                          | 1               | 51                      | 46   | 20    |

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.   | Case Size | Capacitance (μF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL (μA) Max. | DF % Max. | ESR Max. (Ω) @ 100kHz | MSL             | 100kHz RMS Current (mA) |      |       |
|----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-----------|-----------------------|-----------------|-------------------------|------|-------|
|                |           |                  |                   |                        |                      |                           |               |           |                       |                 | 25°C                    | 85°C | 125°C |
| TAJR225*006#NJ | R         | 2.2              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 20                    | 1               | 52                      | 47   | 21    |
| TAJS225*006#NJ | S         | 2.2              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 18                    | 1               | 60                      | 54   | 24    |
| TAJR335*006#NJ | R         | 3.3              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 12                    | 1               | 68                      | 61   | 27    |
| TAJS335*006#NJ | S         | 3.3              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 9                     | 1               | 85                      | 76   | 34    |
| TAJR475*006#NJ | R         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 7                     | 1               | 89                      | 80   | 35    |
| TAJS475*006#NJ | S         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 7.5                   | 1               | 93                      | 84   | 37    |
| TAJT475*006#NJ | T         | 4.7              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 6                     | 1               | 115                     | 104  | 46    |
| TAJR685*006#NJ | R         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 8         | 7                     | 1               | 89                      | 80   | 35    |
| TAJS685*006#NJ | S         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 2.6                   | 1               | 158                     | 142  | 63    |
| TAJT685*006#NJ | T         | 6.8              | 6.3               | 85                     | 4                    | 125                       | 0.5           | 6         | 5                     | 1               | 126                     | 114  | 51    |
| TAJP106*006#NJ | P         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 8         | 6                     | 1               | 100                     | 90   | 40    |
| TAJR106*006#NJ | R         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 8         | 6                     | 1               | 96                      | 86   | 38    |
| TAJS106*006#NJ | S         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 8         | 4                     | 1               | 127                     | 115  | 51    |
| TAJT106*006#NJ | T         | 10               | 6.3               | 85                     | 4                    | 125                       | 0.6           | 6         | 4                     | 1               | 141                     | 127  | 57    |
| TAJK156*006#NJ | K         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 6         | 2                     | 1               | 173                     | 156  | 69    |
| TAJP156*006#NJ | P         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 8         | 3.5                   | 1               | 131                     | 118  | 52    |
| TAJR156*006#NJ | R         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 8         | 4.1                   | 1               | 116                     | 104  | 46    |
| TAJS156*006#NJ | S         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 8         | 3.5                   | 1               | 136                     | 123  | 55    |
| TAJT156*006#NJ | T         | 15               | 6.3               | 85                     | 4                    | 125                       | 0.9           | 6         | 3.5                   | 1               | 151                     | 136  | 60    |
| TAJK226*006#NJ | K         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 10        | 1.8                   | 1               | 183                     | 164  | 73    |
| TAJP226*006#NJ | P         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 8         | 3.3                   | 1               | 135                     | 121  | 54    |
| TAJS226*006#NJ | S         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 10        | 1.8                   | 1               | 190                     | 171  | 76    |
| TAJT226*006#NJ | T         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.4           | 8         | 2.5                   | 1               | 179                     | 161  | 72    |
| TAJW226*006#NJ | W         | 22               | 6.3               | 85                     | 4                    | 125                       | 1.3           | 6         | 0.6                   | 1               | 387                     | 349  | 155   |
| TAJT336*006#NJ | T         | 33               | 6.3               | 85                     | 4                    | 125                       | 2.1           | 10        | 2.5                   | 1               | 179                     | 161  | 72    |
| TAJW336*006#NJ | W         | 33               | 6.3               | 85                     | 4                    | 125                       | 2             | 6         | 0.5                   | 1               | 424                     | 382  | 170   |
| TAJT476*006#NJ | T         | 47               | 6.3               | 85                     | 4                    | 125                       | 2.8           | 10        | 1.6                   | 1               | 224                     | 201  | 89    |
| TAJW476*006#NJ | W         | 47               | 6.3               | 85                     | 4                    | 125                       | 2.8           | 6         | 0.5                   | 1               | 424                     | 382  | 170   |
| TAJW686*006#NJ | W         | 68               | 6.3               | 85                     | 4                    | 125                       | 4.3           | 6         | 1.5                   | 1               | 245                     | 220  | 98    |
| TAJW107*006#NJ | W         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 6         | 0.9                   | 1               | 316                     | 285  | 126   |
| TAJY107*006#NJ | Y         | 100              | 6.3               | 85                     | 4                    | 125                       | 6.3           | 6         | 0.7                   | 1 <sup>1)</sup> | 423                     | 380  | 169   |
| TAJW157*006#NJ | W         | 150              | 6.3               | 85                     | 4                    | 125                       | 9             | 8         | 0.3                   | 1               | 548                     | 493  | 219   |
| TAJX157*006#NJ | X         | 150              | 6.3               | 85                     | 4                    | 125                       | 9             | 6         | 0.4                   | 1 <sup>1)</sup> | 500                     | 450  | 200   |
| TAJY157*006#NJ | Y         | 150              | 6.3               | 85                     | 4                    | 125                       | 9.5           | 6         | 0.4                   | 1 <sup>1)</sup> | 559                     | 503  | 224   |
| TAJF227*006#NJ | F         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.2          | 10        | 0.3                   | 1               | 577                     | 520  | 231   |
| TAJX227*006#NJ | X         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.2          | 8         | 0.3                   | 1 <sup>1)</sup> | 577                     | 520  | 231   |
| TAJY227*006#NJ | Y         | 220              | 6.3               | 85                     | 4                    | 125                       | 13.9          | 8         | 0.7                   | 1 <sup>1)</sup> | 423                     | 380  | 169   |
| TAJY337*006#NJ | Y         | 330              | 6.3               | 85                     | 4                    | 125                       | 20.8          | 12        | 0.4                   | 1 <sup>1)</sup> | 559                     | 503  | 224   |
| TAJY477*006#NJ | Y         | 470              | 6.3               | 85                     | 4                    | 125                       | 28.2          | 20        | 0.2                   | 1 <sup>1)</sup> | 791                     | 712  | 316   |
| 10 Volt @ 85°C |           |                  |                   |                        |                      |                           |               |           |                       |                 |                         |      |       |
| TAJR105*010#NJ | R         | 1                | 10                | 85                     | 7                    | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS105*010#NJ | S         | 1                | 10                | 85                     | 7                    | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR155*010#NJ | R         | 1.5              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 20                    | 1               | 52                      | 47   | 21    |
| TAJS155*010#NJ | S         | 1.5              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 20                    | 1               | 57                      | 51   | 23    |
| TAJR225*010#NJ | R         | 2.2              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 15                    | 1               | 61                      | 54   | 24    |
| TAJS225*010#NJ | S         | 2.2              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 12                    | 1               | 74                      | 66   | 29    |
| TAJR335*010#NJ | R         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 8                     | 1               | 83                      | 75   | 33    |
| TAJS335*010#NJ | S         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 8                     | 1               | 90                      | 81   | 36    |
| TAJT335*010#NJ | T         | 3.3              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 6                     | 1               | 115                     | 104  | 46    |
| TAJR475*010#NJ | R         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 9                     | 1               | 78                      | 70   | 31    |
| TAJS475*010#NJ | S         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 5                     | 1               | 114                     | 103  | 46    |
| TAJT475*010#NJ | T         | 4.7              | 10                | 85                     | 7                    | 125                       | 0.5           | 6         | 5                     | 1               | 126                     | 114  | 51    |
| TAJP685*010#NJ | P         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.6           | 6         | 5                     | 1               | 110                     | 99   | 44    |
| TAJR685*010#NJ | R         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6         | 5.2                   | 1               | 103                     | 93   | 41    |
| TAJS685*010#NJ | S         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6         | 4                     | 1               | 127                     | 115  | 51    |
| TAJT685*010#NJ | T         | 6.8              | 10                | 85                     | 7                    | 125                       | 0.7           | 6         | 4                     | 1               | 141                     | 127  | 57    |
| TAJK106*010#NJ | K         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6         | 2.2                   | 1               | 165                     | 149  | 66    |
| TAJP106*010#NJ | P         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 8         | 6                     | 1               | 100                     | 90   | 40    |
| TAJR106*010#NJ | R         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 20        | 6                     | 1               | 96                      | 86   | 38    |
| TAJS106*010#NJ | S         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 8         | 3                     | 1               | 147                     | 132  | 59    |
| TAJT106*010#NJ | T         | 10               | 10                | 85                     | 7                    | 125                       | 1             | 6         | 3                     | 1               | 163                     | 147  | 65    |
| TAJS156*010#NJ | S         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6         | 2                     | 1               | 180                     | 162  | 72    |
| TAJT156*010#NJ | T         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 8         | 2.8                   | 1               | 169                     | 152  | 68    |
| TAJW156*010#NJ | W         | 15               | 10                | 85                     | 7                    | 125                       | 1.5           | 6         | 0.7                   | 1               | 359                     | 323  | 143   |
| TAJT226*010#NJ | T         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 8         | 2.2                   | 1               | 191                     | 172  | 76    |
| TAJW226*010#NJ | W         | 22               | 10                | 85                     | 7                    | 125                       | 2.2           | 6         | 0.6                   | 1               | 387                     | 349  | 155   |
| TAJW336*010#NJ | W         | 33               | 10                | 85                     | 7                    | 125                       | 3.3           | 6         | 1.6                   | 1               | 237                     | 213  | 95    |
| TAJH476*006#NJ | H         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 8         | 1.0                   | 1               | 283                     | 255  | 113   |
| TAJW476*010#NJ | W         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 6         | 1.4                   | 1               | 254                     | 228  | 101   |
| TAJY476*010#NJ | Y         | 47               | 10                | 85                     | 7                    | 125                       | 4.7           | 6         | 0.5                   | 1 <sup>1)</sup> | 500                     | 450  | 200   |
| TAJW686*010#NJ | W         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 6         | 1.2                   | 1               | 274                     | 246  | 110   |

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.          | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @ 100kHz | MSL             | 100kHz RMS Current (mA) |      |       |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-----------|-----------------------|-----------------|-------------------------|------|-------|
|                       |           |                  |                   |                        |                      |                           |               |           |                       |                 | 25°C                    | 85°C | 125°C |
| TAJY686*010#NJ        | Y         | 68               | 10                | 85                     | 7                    | 125                       | 6.8           | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJW107*010#NJ        | W         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 6         | 0.4                   | 1               | 474                     | 427  | 190   |
| TAJX107*010#NJ        | X         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 8         | 0.9                   | 1 <sup>1)</sup> | 333                     | 300  | 133   |
| TAJY107*010#NJ        | Y         | 100              | 10                | 85                     | 7                    | 125                       | 10            | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJF157*010#NJ        | F         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 10        | 0.3                   | 1               | 577                     | 520  | 231   |
| TAJX157M010#NJ        | X         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 6         | 0.3                   | 1 <sup>1)</sup> | 577                     | 520  | 231   |
| TAJY157*010#NJ        | Y         | 150              | 10                | 85                     | 7                    | 125                       | 15            | 6         | 1.2                   | 1 <sup>1)</sup> | 323                     | 290  | 129   |
| TAJY227*010#NJ        | Y         | 220              | 10                | 85                     | 7                    | 125                       | 22            | 10        | 0.5                   | 1 <sup>1)</sup> | 500                     | 450  | 200   |
| <b>16 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |           |                       |                 |                         |      |       |
| TAJR684*016#NJ        | R         | 0.68             | 16                | 85                     | 10                   | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS684*016#NJ        | S         | 0.68             | 16                | 85                     | 10                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR105*016#NJ        | R         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4         | 20                    | 1               | 52                      | 47   | 21    |
| TAJS105*016#NJ        | S         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4         | 15                    | 1               | 66                      | 59   | 26    |
| TAJT105*016#NJ        | T         | 1                | 16                | 85                     | 10                   | 125                       | 0.5           | 4         | 5                     | 1               | 126                     | 114  | 51    |
| TAJR155*016#NJ        | R         | 1.5              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 10                    | 1               | 74                      | 67   | 30    |
| TAJS155*016#NJ        | S         | 1.5              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 12                    | 1               | 74                      | 66   | 29    |
| TAJR225*016#NJ        | R         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 6.5                   | 1               | 92                      | 83   | 37    |
| TAJS225*016#NJ        | S         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 6                     | 1               | 104                     | 94   | 42    |
| TAJT225*016#NJ        | T         | 2.2              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 6.5                   | 1               | 111                     | 100  | 44    |
| TAJR335*016#NJ        | R         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 8         | 5                     | 1               | 105                     | 94   | 42    |
| TAJS335*016#NJ        | S         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 5                     | 1               | 114                     | 103  | 46    |
| TAJT335*016#NJ        | T         | 3.3              | 16                | 85                     | 10                   | 125                       | 0.5           | 6         | 5                     | 1               | 126                     | 114  | 51    |
| TAJK475*016#NJ        | K         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6         | 3.1                   | 1               | 139                     | 125  | 56    |
| TAJP475*016#NJ        | P         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 8         | 5                     | 1               | 110                     | 99   | 44    |
| TAJS475*016#NJ        | S         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 8         | 4                     | 1               | 127                     | 115  | 51    |
| TAJT475*016#NJ        | T         | 4.7              | 16                | 85                     | 10                   | 125                       | 0.8           | 6         | 3.1                   | 1               | 161                     | 145  | 64    |
| TAJS685*016#NJ        | S         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 8         | 2.4                   | 1               | 165                     | 148  | 66    |
| TAJT685*016#NJ        | T         | 6.8              | 16                | 85                     | 10                   | 125                       | 1.1           | 6         | 3.5                   | 1               | 151                     | 136  | 60    |
| TAJT106*016#NJ        | T         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 8         | 2.2                   | 1               | 191                     | 172  | 76    |
| TAJW106*016#NJ        | W         | 10               | 16                | 85                     | 10                   | 125                       | 1.6           | 6         | 2                     | 1               | 212                     | 191  | 85    |
| TAJT156M016#NJ        | T         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6         | 2                     | 1               | 200                     | 180  | 80    |
| TAJW156*016#NJ        | W         | 15               | 16                | 85                     | 10                   | 125                       | 2.4           | 6         | 0.7                   | 1               | 359                     | 323  | 143   |
| TAJW226*016#NJ        | W         | 22               | 16                | 85                     | 10                   | 125                       | 3.5           | 6         | 1.6                   | 1               | 237                     | 213  | 95    |
| TAJW336*016#NJ        | W         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6         | 1.5                   | 1               | 245                     | 220  | 98    |
| TAJY336*016#NJ        | Y         | 33               | 16                | 85                     | 10                   | 125                       | 5.3           | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJW476*016#NJ        | W         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6         | 0.4                   | 1               | 474                     | 427  | 190   |
| TAJX476*016#NJ        | X         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6         | 0.75                  | 1 <sup>1)</sup> | 365                     | 329  | 146   |
| TAJY476*016#NJ        | Y         | 47               | 16                | 85                     | 10                   | 125                       | 7.5           | 6         | 0.7                   | 1 <sup>1)</sup> | 423                     | 380  | 169   |
| TAJF686*016#NJ        | F         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 10        | 0.4                   | 1               | 500                     | 450  | 200   |
| TAJX686*016#NJ        | X         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 8         | 0.6                   | 1 <sup>1)</sup> | 408                     | 367  | 163   |
| TAJY686*016#NJ        | Y         | 68               | 16                | 85                     | 10                   | 125                       | 10.9          | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJF107M016#NJ        | F         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 10        | 0.4                   | 1               | 500                     | 450  | 200   |
| TAJY107*016#NJ        | Y         | 100              | 16                | 85                     | 10                   | 125                       | 16            | 8         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJY157M016#NJ        | Y         | 150              | 16                | 85                     | 10                   | 125                       | 24            | 15        | 0.3                   | 1 <sup>1)</sup> | 645                     | 581  | 258   |
| <b>20 Volt @ 85°C</b> |           |                  |                   |                        |                      |                           |               |           |                       |                 |                         |      |       |
| TAJR104*020#NJ        | R         | 0.1              | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS104*020#NJ        | S         | 0.1              | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR154*020#NJ        | R         | 0.15             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS154*020#NJ        | S         | 0.15             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR224*020#NJ        | R         | 0.22             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS224*020#NJ        | S         | 0.22             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR334*020#NJ        | R         | 0.33             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS334*020#NJ        | S         | 0.33             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR474*020#NJ        | R         | 0.47             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 47                      | 42   | 19    |
| TAJS474*020#NJ        | S         | 0.47             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJR684*020#NJ        | R         | 0.68             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 20                    | 1               | 52                      | 47   | 21    |
| TAJS684*020#NJ        | S         | 0.68             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 25                    | 1               | 51                      | 46   | 20    |
| TAJT684*020#NJ        | T         | 0.68             | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 15                    | 1               | 73                      | 66   | 29    |
| TAJR105*020#NJ        | R         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 20                    | 1               | 52                      | 47   | 21    |
| TAJS105*020#NJ        | S         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 12                    | 1               | 74                      | 66   | 29    |
| TAJT105*020#NJ        | T         | 1                | 20                | 85                     | 13                   | 125                       | 0.5           | 4         | 9                     | 1               | 94                      | 85   | 38    |
| TAJP155*020#NJ        | P         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 9.6                   | 1               | 79                      | 71   | 32    |
| TAJR155*020#NJ        | R         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 9.6                   | 1               | 76                      | 68   | 30    |
| TAJS155*020#NJ        | S         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 5.4                   | 1               | 110                     | 99   | 44    |
| TAJT155*020#NJ        | T         | 1.5              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 6.5                   | 1               | 111                     | 100  | 44    |
| TAJP225*020#NJ        | P         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 8.3                   | 1               | 85                      | 77   | 34    |
| TAJR225*020#NJ        | R         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 6                     | 1               | 96                      | 86   | 38    |
| TAJS225*020#NJ        | S         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 4.5                   | 1               | 120                     | 108  | 48    |
| TAJT225*020#NJ        | T         | 2.2              | 20                | 85                     | 13                   | 125                       | 0.5           | 6         | 6                     | 1               | 115                     | 104  | 46    |
| TAJT335*020#NJ        | T         | 3.3              | 20                | 85                     | 13                   | 125                       | 0.7           | 6         | 3                     | 1               | 163                     | 147  | 65    |
| TAJT475*020#NJ        | T         | 4.7              | 20                | 85                     | 13                   | 125                       | 0.9           | 6         | 3.1                   | 1               | 161                     | 145  | 64    |

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.   | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @ 100kHz | MSL             | 100kHz RMS Current (mA) |      |       |
|----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-----------|-----------------------|-----------------|-------------------------|------|-------|
|                |           |                  |                   |                        |                      |                           |               |           |                       |                 | 25°C                    | 85°C | 125°C |
| TAJT685*020#NJ | T         | 6.8              | 20                | 85                     | 13                   | 125                       | 1.4           | 6         | 2.6                   | 1               | 175                     | 158  | 70    |
| TAJW106*020#NJ | W         | 10               | 20                | 85                     | 13                   | 125                       | 2             | 6         | 1.9                   | 1               | 218                     | 196  | 87    |
| TAJW156*020#NJ | W         | 15               | 20                | 85                     | 13                   | 125                       | 3             | 6         | 1.7                   | 1               | 230                     | 207  | 92    |
| TAJW226*020#NJ | W         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6         | 1.6                   | 1               | 237                     | 213  | 95    |
| TAJY226*020#NJ | Y         | 22               | 20                | 85                     | 13                   | 125                       | 4.4           | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJX336*020#NJ | X         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6         | 0.5                   | 1 <sup>1)</sup> | 447                     | 402  | 179   |
| TAJY336*020#NJ | Y         | 33               | 20                | 85                     | 13                   | 125                       | 6.6           | 6         | 0.6                   | 1 <sup>1)</sup> | 456                     | 411  | 183   |
| TAJX476*020#NJ | X         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6         | 0.4                   | 1 <sup>1)</sup> | 500                     | 450  | 200   |
| TAJY476*020#NJ | Y         | 47               | 20                | 85                     | 13                   | 125                       | 9.4           | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJY686*020#NJ | Y         | 68               | 20                | 85                     | 13                   | 125                       | 13.6          | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| 25 Volt @ 85°C |           |                  |                   |                        |                      |                           |               |           |                       |                 |                         |      |       |
| TAJR154*025#NJ | R         | 0.15             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 24                    | 1               | 48                      | 43   | 19    |
| TAJR224*025#NJ | R         | 0.15             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 21                    | 1               | 51                      | 46   | 20    |
| TAJR334*025#NJ | R         | 0.15             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 17                    | 1               | 57                      | 51   | 23    |
| TAJR474*025#NJ | R         | 0.47             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 15                    | 1               | 61                      | 54   | 24    |
| TAJS474*025#NJ | S         | 0.47             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 9                     | 1               | 85                      | 76   | 34    |
| TAJR684*025#NJ | R         | 0.68             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 13                    | 1               | 65                      | 59   | 26    |
| TAJS684*025#NJ | S         | 0.68             | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 8                     | 1               | 90                      | 81   | 36    |
| TAJP105*025#NJ | P         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 11                    | 1               | 74                      | 66   | 30    |
| TAJR105*025#NJ | R         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 8                     | 1               | 83                      | 75   | 33    |
| TAJS105*025#NJ | S         | 1                | 25                | 85                     | 17                   | 125                       | 0.5           | 4         | 8                     | 1               | 90                      | 81   | 36    |
| TAJP155*025#NJ | P         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6         | 9.6                   | 1               | 79                      | 71   | 32    |
| TAJS155*025#NJ | S         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6         | 5.4                   | 1               | 110                     | 99   | 44    |
| TAJT155*025#NJ | T         | 1.5              | 25                | 85                     | 17                   | 125                       | 0.5           | 6         | 5                     | 1               | 126                     | 114  | 51    |
| TAJT225*025#NJ | T         | 2.2              | 25                | 85                     | 17                   | 125                       | 0.6           | 6         | 4.5                   | 1               | 133                     | 120  | 53    |
| TAJT335*025#NJ | T         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6         | 3.5                   | 1               | 151                     | 136  | 60    |
| TAJW335*025#NJ | W         | 3.3              | 25                | 85                     | 17                   | 125                       | 0.8           | 6         | 1.6                   | 1               | 237                     | 213  | 95    |
| TAJT475*025#NJ | T         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6         | 3.1                   | 1               | 161                     | 145  | 64    |
| TAJW475*025#NJ | W         | 4.7              | 25                | 85                     | 17                   | 125                       | 1.2           | 6         | 1.2                   | 1               | 274                     | 246  | 110   |
| TAJW685*025#NJ | W         | 6.8              | 25                | 85                     | 17                   | 125                       | 1.7           | 6         | 2                     | 1               | 212                     | 191  | 85    |
| TAJW106*025#NJ | W         | 10               | 25                | 85                     | 17                   | 125                       | 2.5           | 6         | 1.8                   | 1               | 224                     | 201  | 89    |
| TAJY156*025#NJ | Y         | 15               | 25                | 85                     | 17                   | 125                       | 3.8           | 6         | 1                     | 1 <sup>1)</sup> | 354                     | 318  | 141   |
| TAJY226*025#NJ | Y         | 22               | 25                | 85                     | 17                   | 125                       | 5.5           | 6         | 0.8                   | 1 <sup>1)</sup> | 395                     | 356  | 158   |
| TAJY336*025#NJ | Y         | 33               | 25                | 85                     | 17                   | 125                       | 8.3           | 6         | 0.5                   | 1 <sup>1)</sup> | 500                     | 450  | 200   |
| TAJY476*025#NJ | Y         | 47               | 25                | 85                     | 17                   | 125                       | 11.8          | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| 35 Volt @ 85°C |           |                  |                   |                        |                      |                           |               |           |                       |                 |                         |      |       |
| TAJR104*035#NJ | R         | 0.1              | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 29                    | 1               | 44                      | 39   | 17    |
| TAJS104*035#NJ | S         | 0.1              | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 24                    | 1               | 52                      | 47   | 21    |
| TAJR154*035#NJ | R         | 0.15             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 24                    | 1               | 48                      | 43   | 19    |
| TAJS154*035#NJ | S         | 0.15             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 21                    | 1               | 56                      | 50   | 22    |
| TAJR224*035#NJ | R         | 0.22             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 21                    | 1               | 51                      | 46   | 20    |
| TAJS224*035#NJ | S         | 0.22             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 18                    | 1               | 60                      | 54   | 24    |
| TAJR334*035#NJ | R         | 0.33             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 17                    | 1               | 57                      | 51   | 23    |
| TAJS334*035#NJ | S         | 0.33             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 15                    | 1               | 66                      | 59   | 26    |
| TAJR474*035#NJ | R         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 15                    | 1               | 61                      | 54   | 24    |
| TAJS474*035#NJ | S         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 12                    | 1               | 74                      | 66   | 29    |
| TAJT474*035#NJ | T         | 0.47             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 10                    | 1               | 89                      | 80   | 36    |
| TAJP684*035#NJ | P         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 13                    | 1               | 68                      | 61   | 27    |
| TAJS684*035#NJ | S         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 8                     | 1               | 90                      | 81   | 36    |
| TAJT684*035#NJ | T         | 0.68             | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 8                     | 1               | 100                     | 90   | 40    |
| TAJP105*035#NJ | P         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 11                    | 1               | 74                      | 66   | 30    |
| TAJS105*035#NJ | S         | 1                | 35                | 85                     | 23                   | 125                       | 0.5           | 4         | 7.5                   | 1               | 93                      | 84   | 37    |
| TAJT105*035#NJ | T         | 1                | 35                | 85                     | 23                   | 125                       | 5             | 4         | 6.5                   | 1               | 111                     | 100  | 44    |
| TAJT155*035#NJ | T         | 1.5              | 35                | 85                     | 23                   | 125                       | 0.5           | 6         | 5.2                   | 1               | 124                     | 112  | 50    |
| TAJT225*035#NJ | T         | 2.2              | 35                | 85                     | 23                   | 125                       | 0.8           | 6         | 4.2                   | 1               | 138                     | 124  | 55    |
| TAJW335*035#NJ | W         | 3.3              | 35                | 85                     | 23                   | 125                       | 1.2           | 6         | 1.6                   | 1               | 237                     | 213  | 95    |
| TAJW475*035#NJ | W         | 4.7              | 35                | 85                     | 23                   | 125                       | 1.6           | 6         | 2.2                   | 1               | 202                     | 182  | 81    |
| TAJY685*035#NJ | Y         | 6.8              | 35                | 85                     | 23                   | 125                       | 2.3           | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |
| TAJX106*035#NJ | X         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6         | 0.7                   | 1 <sup>1)</sup> | 378                     | 340  | 151   |
| TAJY106*035#NJ | Y         | 10               | 35                | 85                     | 23                   | 125                       | 3.5           | 6         | 1                     | 1 <sup>1)</sup> | 354                     | 318  | 141   |
| TAJY156*035#NJ | Y         | 15               | 35                | 85                     | 23                   | 125                       | 5.3           | 6         | 0.6                   | 1 <sup>1)</sup> | 456                     | 411  | 183   |
| TAJY226*035#NJ | Y         | 22               | 35                | 85                     | 23                   | 125                       | 7.7           | 6         | 0.5                   | 1 <sup>1)</sup> | 500                     | 450  | 200   |
| 50 Volt @ 85°C |           |                  |                   |                        |                      |                           |               |           |                       |                 |                         |      |       |
| TAJS104*050#NJ | S         | 0.1              | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 19                    | 1               | 58                      | 53   | 23    |
| TAJS154*050#NJ | S         | 0.15             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 16                    | 1               | 64                      | 57   | 25    |
| TAJP224*050#NJ | P         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 17                    | 1               | 59                      | 53   | 24    |
| TAJR224*050#NJ | R         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 17                    | 1               | 57                      | 51   | 23    |
| TAJS224*050#NJ | S         | 0.22             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 13                    | 1               | 71                      | 64   | 28    |
| TAJP334*050#NJ | P         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 17                    | 1               | 59                      | 53   | 24    |
| TAJR334M050#NJ | R         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 17                    | 1               | 57                      | 51   | 23    |
| TAJS334*050#NJ | S         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 11                    | 1               | 77                      | 69   | 31    |

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.   | Case Size | Capacitance (μF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL (μA) Max. | DF % Max. | ESR Max. (Ω) @ 100kHz | MSL             | 100kHz RMS Current (mA) |      |       |
|----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-----------|-----------------------|-----------------|-------------------------|------|-------|
|                |           |                  |                   |                        |                      |                           |               |           |                       |                 | 25°C                    | 85°C | 125°C |
| TAJT334*050#NJ | T         | 0.33             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 11                    | 1               | 85                      | 77   | 34    |
| TAJS474*050#NJ | S         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 9.5                   | 1               | 83                      | 74   | 33    |
| TAJT474*050#NJ | T         | 0.47             | 50                | 85                     | 33                   | 125                       | 0.5           | 4         | 9.5                   | 1               | 92                      | 83   | 37    |
| TAJW105*050#NJ | W         | 1                | 50                | 85                     | 33                   | 125                       | 0.5           | 6         | 4.4                   | 1               | 143                     | 129  | 57    |
| TAJW155*050#NJ | W         | 1.5              | 50                | 85                     | 33                   | 125                       | 0.8           | 6         | 3.1                   | 1               | 170                     | 153  | 68    |
| TAJW225*050#NJ | W         | 2.2              | 50                | 85                     | 33                   | 125                       | 1.1           | 8         | 2.5                   | 1               | 190                     | 171  | 76    |
| TAJY335*050#NJ | Y         | 3.3              | 50                | 85                     | 33                   | 125                       | 1.7           | 4         | 1.5                   | 1 <sup>1)</sup> | 289                     | 260  | 115   |
| TAJY475*050#NJ | Y         | 4.7              | 50                | 85                     | 33                   | 125                       | 2.4           | 6         | 1.2                   | 1 <sup>1)</sup> | 323                     | 290  | 129   |
| TAJY685*050#NJ | Y         | 6.8              | 50                | 85                     | 33                   | 125                       | 3.4           | 6         | 0.9                   | 1 <sup>1)</sup> | 373                     | 335  | 149   |

### QUALIFICATION TABLE

| TEST                  | TAJ low profile series (Temperature range -55°C to +125°C)                                                                                                                                                                                                                                            |               |               |                    |                              |           |       |           |            |       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|--------------------|------------------------------|-----------|-------|-----------|------------|-------|
|                       | Condition                                                                                                                                                                                                                                                                                             |               |               | Characteristics    |                              |           |       |           |            |       |
| Endurance             | Determine after application of rated voltage for 2000 +48/-0 hours at 85±2°C and then leaving 1-2 hours at room temperature. Also determine of 125°C temperature, category voltage for 2000 +48/-0 hours and then leaving 1-2 hours at room temperature. Power supply impedance to be ≤0.1Ω/V.        |               |               | Visual examination | no visible damage            |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | DCL                | 1.25 x initial limit         |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | ΔC/C               | within ±10% of initial value |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | DF                 | initial limit                |           |       |           |            |       |
| Humidity              | Determine after storage without applied voltage at 65±2°C and 95±2% relative humidity for 500 hours and then recovery 1-2 hours at room temperature.                                                                                                                                                  |               |               | Visual examination | no visible damage            |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | DCL                | initial limit                |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | ΔC/C               | within ±10% of initial value |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | DF                 | 1.2 x initial limit          |           |       |           |            |       |
| Temperature Stability | Step                                                                                                                                                                                                                                                                                                  | Temperature°C | Duration(min) |                    | +20°C                        | -55°C     | +20°C | +85°C     | +125°C     | +20°C |
|                       | 1                                                                                                                                                                                                                                                                                                     | +20±2         | 15            |                    |                              |           |       |           |            |       |
|                       | 2                                                                                                                                                                                                                                                                                                     | -55+0/-3      | 15            | DCL                | IL*                          | n/a       | IL*   | 10 x IL*  | 12.5 x IL* | IL*   |
|                       | 3                                                                                                                                                                                                                                                                                                     | +20±2         | 15            |                    |                              |           |       |           |            |       |
|                       | 4                                                                                                                                                                                                                                                                                                     | +85+3/-0      | 15            | ΔC/C               | n/a                          | +0/-10%   | ±5%   | +10/-0%   | +12/-0%    | ±5%   |
|                       | 5                                                                                                                                                                                                                                                                                                     | +125+3/-0     | 15            |                    |                              |           |       |           |            |       |
| Surge Voltage         | 6                                                                                                                                                                                                                                                                                                     | +20±2         | 15            | DF                 | IL*                          | 1.5 x IL* | IL*   | 1.5 x IL* | 2 x IL*    | IL*   |
|                       | <u>Test temperature: 125°C+3/0°C</u><br>Test voltage: Category voltage at 125°C<br>Surge voltage: 1.3 x category voltage at 125°C<br>Series protection resistance 1000±100Ω<br>Discharge resistance: 1000Ω<br>Number of cycles: 1000x<br>Cycle duration: 6 min; 30 sec charge, 5 min 30 sec discharge |               |               | Visual examination | no visible damage            |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | DCL                | initial limit                |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | ΔC/C               | within ±5% of initial value  |           |       |           |            |       |
|                       |                                                                                                                                                                                                                                                                                                       |               |               | DF                 | initial limit                |           |       |           |            |       |

\*Initial Limit