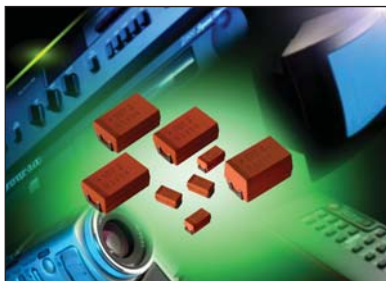


## Niobium Oxide Capacitor

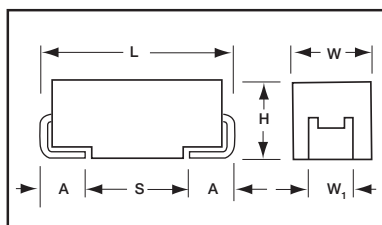


**Cost versus Performance** is a key requirement for consumer electronic products. A new solid electrolyte capacitor **OxiCap®** has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market. The **OxiCap® non-burn<sup>1</sup>** technology is based on **NbO niobium oxide ceramic material** as the anodic material processed through the same manufacturing process as tantalum capacitors. Nb<sub>2</sub>O<sub>5</sub> dielectric in

combination to self-healing MnO<sub>2</sub> cathode is a basis for a good reliability level **0.5%/1000 hrs.** within a temperature range up to **105°C** and rated voltage **<6V** (rail voltage <5V). Electrical parameters are similar to general tantalum specifications. NbO and MnO<sub>2</sub> are widely available materials. The laser coded **orange molded body** gives total traceability.

- Reduced Voltage Derating
- Failed OxiCap® will not burn up to category voltage

### CASE DIMENSIONS: millimeters (inches)



| Code | EIA Code | L±0.20 (0.008) | W+0.20 (0.008)<br>-0.10 (0.004) | H+0.20 (0.008)<br>-0.10 (0.004) | W <sub>1</sub> ±0.20 (0.008) | A+0.30 (0.012)<br>-0.20 (0.008) | S Min.       |
|------|----------|----------------|---------------------------------|---------------------------------|------------------------------|---------------------------------|--------------|
| A    | 3216-18  | 3.20 (0.126)   | 1.60 (0.063)                    | 1.60 (0.063)                    | 1.20 (0.047)                 | 0.80 (0.031)                    | 1.10 (0.043) |
| B    | 3528-21  | 3.50 (0.138)   | 2.80 (0.110)                    | 1.90 (0.075)                    | 2.20 (0.087)                 | 0.80 (0.031)                    | 1.40 (0.055) |
| C    | 6032-28  | 6.00 (0.236)   | 3.20 (0.126)                    | 2.60 (0.102)                    | 2.20 (0.087)                 | 1.30 (0.051)                    | 2.90 (0.114) |
| D    | 7343-31  | 7.30 (0.287)   | 4.30 (0.169)                    | 2.90 (0.114)                    | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |
| E    | 7343-43  | 7.30 (0.287)   | 4.30 (0.169)                    | 4.10 (0.162)                    | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |
| V    | 7361-38  | 7.30 (0.287)   | 6.10 (0.240)                    | 3.45 ±0.30<br>(0.136±0.012)     | 3.10 (0.120)                 | 1.40 (0.055)                    | 4.40 (0.173) |

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

### HOW TO ORDER

**NOJ**

Type

**D**

Case Size

**107**

Capacitance Code  
1st two digits represent significant figures, 3rd digit represents multiplier in pF

**M**

Capacitance Tolerance  
M = ±20%

**006**

Rated DC Voltage  
001 = 1.8Vdc  
002 = 2.5Vdc  
004 = 4Vdc  
006 = 6.3Vdc  
010 = 10Vdc

**R**

Packaging  
R = Lead Free 7" Reel  
S = Lead Free 13" Reel

**WJ**

Additional Characters

### TECHNICAL SPECIFICATIONS

Technical Data:

All technical data relate to an ambient temperature of +25°C is not stated

Capacitance Range: 4.7 µF to 2200 µF

Capacitance Tolerance: ±20%

Leakage Current DCL: 0.02CV

|                                    |          |     |     |     |     |    |  |
|------------------------------------|----------|-----|-----|-----|-----|----|--|
| Rated Voltage DC (V <sub>R</sub> ) | ≤+85°C:  | 1.8 | 2.5 | 4   | 6.3 | 10 |  |
| Category Voltage (V <sub>C</sub> ) | ≤+105°C: | 1.2 | 1.7 | 2.7 | 4   | 7  |  |
| Surge Voltage (V <sub>S</sub> )    | ≤+85°C:  | 2.3 | 3.3 | 5.2 | 8   | 13 |  |
|                                    | ≤+105°C: | 1.6 | 2.2 | 3.4 | 5   | 8  |  |

Temperature Range: -55°C to +105°C

Reliability: 0.5% per 1000 hours at 85°C, V<sub>R</sub>, 0.1Ω/V series impedance, 60% confidence level  
Meets requirements of AEC-Q200

# OxiCap® NOJ Series

## Niobium Oxide Capacitor



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

| Capacitance |      | Rated Voltage DC (V <sub>R</sub> ) to 85°C / 0.66 DC to 105°C |          |        |          |         |
|-------------|------|---------------------------------------------------------------|----------|--------|----------|---------|
| μF          | Code | 1.8V (x)                                                      | 2.5V (e) | 4V (G) | 6.3V (J) | 10V (A) |
| 4.7         | 475  |                                                               |          |        | A        | A       |
| 6.8         | 685  |                                                               |          |        | A        | A       |
| 10          | 106  |                                                               |          |        | A        | A/B     |
| 15          | 156  |                                                               |          | A      | A/B      | A/B     |
| 22          | 226  |                                                               | A        | A/B    | A/B      | B/C     |
| 33          | 336  |                                                               | A/B      | A/B    | B/C      | C       |
| 47          | 476  | A                                                             | A/B      | A*/B/C | A*/B/C   | C       |
| 68          | 686  | B                                                             | B/C      | B/C    | B/C      | C       |
| 100         | 107  | B/C                                                           | B/C      | B/C    | B/C/D    | D       |
| 150         | 157  | C                                                             | C        | B*/C/D | C/D      |         |
| 220         | 227  | C                                                             | C        | C/D    | C/D/E    |         |
| 330         | 337  | C                                                             | C/D      | D      | D/E      |         |
| 470         | 477  |                                                               | D/E      | D/E    | E/V      |         |
| 680         | 687  |                                                               | E        | E/V    |          |         |
| 1000        | 108  |                                                               | V        | V      |          |         |

\*Please Contact Manufacturer



LEAD-FREE

LEAD-FREE COMPATIBLE  
COMPONENT



RoHS  
COMPLIANT



NON-BURN  
NON-SMOKE

## Niobium Oxide Capacitor

### RATINGS & PART NUMBER REFERENCE

| AVX<br>Part No.                    | Case<br>Size | Capacitance<br>(μF) | Rated<br>Voltage<br>(V) | DCL<br>(μA)<br>Max. | DF<br>%<br>Max. | ESR<br>Max. (Ω)<br>@100kHz | 100kHz Ripple Current (A) |       |       | 100kHz Ripple Voltage (V) |       |       |
|------------------------------------|--------------|---------------------|-------------------------|---------------------|-----------------|----------------------------|---------------------------|-------|-------|---------------------------|-------|-------|
|                                    |              |                     |                         |                     |                 |                            | 25°C                      | 85°C  | 105°C | 25°C                      | 85°C  | 105°C |
| 1.8 Volt @ 85°C (1.2 Volt @ 105°C) |              |                     |                         |                     |                 |                            |                           |       |       |                           |       |       |
| NOJA476M001#                       | A            | 47                  | 1.8                     | 1.7                 | 8               | 1.6                        | 0.237                     | 0.213 | 0.095 | 0.379                     | 0.342 | 0.152 |
| NOJB476M001#                       | B            | 47                  | 1.8                     | 1.7                 | 6               | 1.6                        | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJB686M001#                       | B            | 68                  | 1.8                     | 2.5                 | 6               | 1.5                        | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJB107M001#                       | B            | 100                 | 1.8                     | 3.6                 | 6               | 1.4                        | 0.270                     | 0.243 | 0.108 | 0.378                     | 0.340 | 0.151 |
| NOJC107M001#                       | C            | 100                 | 1.8                     | 3.6                 | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC157M001#                       | C            | 150                 | 1.8                     | 5.4                 | 8               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC227M001#                       | C            | 220                 | 1.8                     | 8.0                 | 8               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC337M001#                       | C            | 330                 | 1.8                     | 11.9                | 8               | 0.3                        | 0.663                     | 0.597 | 0.265 | 0.199                     | 0.179 | 0.080 |
| 2.5 Volt @ 85°C (1.7 Volt @ 105°C) |              |                     |                         |                     |                 |                            |                           |       |       |                           |       |       |
| NOJA226M002#                       | A            | 22                  | 2.5                     | 1.1                 | 6               | 1.9                        | 0.218                     | 0.196 | 0.087 | 0.414                     | 0.372 | 0.165 |
| NOJA336M002#                       | A            | 33                  | 2.5                     | 1.7                 | 6               | 1.7                        | 0.230                     | 0.207 | 0.092 | 0.391                     | 0.352 | 0.156 |
| NOJB336M002#                       | B            | 33                  | 2.5                     | 1.7                 | 6               | 1.7                        | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJA476M002#                       | A            | 47                  | 2.5                     | 2.4                 | 8               | 1.6                        | 0.237                     | 0.213 | 0.095 | 0.379                     | 0.342 | 0.152 |
| NOJB476M002#                       | B            | 47                  | 2.5                     | 2.4                 | 6               | 1.6                        | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJB686M002#                       | B            | 68                  | 2.5                     | 3.4                 | 6               | 1.5                        | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJC686M002#                       | C            | 68                  | 2.5                     | 3.4                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB107M002#                       | B            | 100                 | 2.5                     | 5.0                 | 6               | 1.4                        | 0.270                     | 0.243 | 0.108 | 0.378                     | 0.340 | 0.151 |
| NOJC107M002#                       | C            | 100                 | 2.5                     | 5.0                 | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC157M002#                       | C            | 150                 | 2.5                     | 7.5                 | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC227M002#                       | C            | 220                 | 2.5                     | 11.0                | 8               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC337M002#                       | C            | 330                 | 2.5                     | 16.5                | 10              | 0.3                        | 0.663                     | 0.597 | 0.265 | 0.199                     | 0.179 | 0.080 |
| NOJD337M002#                       | D            | 330                 | 2.5                     | 16.5                | 10              | 0.3                        | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJD477M002#                       | D            | 470                 | 2.5                     | 23.5                | 10              | 0.3                        | 0.775                     | 0.697 | 0.310 | 0.323                     | 0.209 | 0.093 |
| NOJE477M002#                       | E            | 470                 | 2.5                     | 23.5                | 10              | 0.3                        | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJE687M002#                       | E            | 680                 | 2.5                     | 34.0                | 12              | 0.3                        | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJV108M002#                       | V            | 1000                | 2.5                     | 50.0                | 18              | 0.3                        | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| 4 Volt @ 85°C (2.7 Volt @ 105°C)   |              |                     |                         |                     |                 |                            |                           |       |       |                           |       |       |
| NOJA156M004#                       | A            | 15                  | 4                       | 1.2                 | 6               | 2                          | 0.212                     | 0.191 | 0.085 | 0.424                     | 0.382 | 0.170 |
| NOJA226M004#                       | A            | 22                  | 4                       | 1.8                 | 6               | 1.9                        | 0.218                     | 0.196 | 0.087 | 0.414                     | 0.372 | 0.165 |
| NOJB226M004#                       | B            | 22                  | 4                       | 1.8                 | 6               | 1.9                        | 0.232                     | 0.209 | 0.093 | 0.440                     | 0.396 | 0.176 |
| NOJA336M004#                       | A            | 33                  | 4                       | 2.6                 | 10              | 1.7                        | 0.230                     | 0.207 | 0.092 | 0.391                     | 0.352 | 0.156 |
| NOJB336M004#                       | B            | 33                  | 4                       | 2.6                 | 6               | 1.7                        | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJB476M004#                       | B            | 47                  | 4                       | 3.8                 | 6               | 1.6                        | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJC476M004#                       | C            | 47                  | 4                       | 3.8                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB686M004#                       | B            | 68                  | 4                       | 5.4                 | 6               | 1.5                        | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJC686M004#                       | C            | 68                  | 4                       | 5.4                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB107M004#                       | B            | 100                 | 4                       | 8.0                 | 16              | 1.4                        | 0.270                     | 0.243 | 0.108 | 0.378                     | 0.340 | 0.151 |
| NOJC107M004#                       | C            | 100                 | 4                       | 8.0                 | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC157M004#                       | C            | 150                 | 4                       | 12.0                | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD157M004#                       | D            | 150                 | 4                       | 12.0                | 6               | 0.3                        | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJC227M004#                       | C            | 220                 | 4                       | 17.6                | 8               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD227M004#                       | D            | 220                 | 4                       | 17.6                | 8               | 0.4                        | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJD337M004#                       | D            | 330                 | 4                       | 26.4                | 8               | 0.3                        | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJD477M004#                       | D            | 470                 | 4                       | 37.6                | 12              | 0.3                        | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJE477M004#                       | E            | 470                 | 4                       | 37.6                | 12              | 0.3                        | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJE687M004#                       | E            | 680                 | 4                       | 54.4                | 14              | 0.3                        | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJV687M004#                       | V            | 680                 | 4                       | 54.4                | 14              | 0.3                        | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| NOJV108M004#                       | V            | 1000                | 4                       | 80.0                | 18              | 0.3                        | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| 6.3 Volt @ 85°C (4 Volt @ 105°C)   |              |                     |                         |                     |                 |                            |                           |       |       |                           |       |       |
| NOJA475M006#                       | A            | 4.7                 | 6.3                     | 1.1                 | 6               | 3.2                        | 0.168                     | 0.151 | 0.067 | 0.537                     | 0.483 | 0.215 |
| NOJA685M006#                       | A            | 6.8                 | 6.3                     | 1.1                 | 6               | 2.6                        | 0.186                     | 0.167 | 0.074 | 0.484                     | 0.435 | 0.193 |
| NOJA106M006#                       | A            | 10                  | 6.3                     | 1.2                 | 6               | 2.2                        | 0.202                     | 0.182 | 0.081 | 0.445                     | 0.400 | 0.178 |
| NOJB156M006#                       | B            | 15                  | 6.3                     | 1.8                 | 6               | 2                          | 0.226                     | 0.203 | 0.090 | 0.452                     | 0.406 | 0.181 |
| NOJA156M006#                       | A            | 15                  | 6.3                     | 1.8                 | 8               | 2                          | 0.212                     | 0.191 | 0.085 | 0.424                     | 0.382 | 0.170 |
| NOJB226M006#                       | B            | 22                  | 6.3                     | 2.6                 | 6               | 1.9                        | 0.232                     | 0.209 | 0.093 | 0.440                     | 0.396 | 0.176 |
| NOJA226M006#                       | A            | 22                  | 6.3                     | 2.6                 | 8               | 1.8                        | 0.224                     | 0.201 | 0.089 | 0.402                     | 0.362 | 0.161 |
| NOJB336M006#                       | B            | 33                  | 6.3                     | 4.0                 | 6               | 1.7                        | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJC336M006#                       | C            | 33                  | 6.3                     | 4.0                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB476M006#                       | B            | 47                  | 6.3                     | 5.6                 | 6               | 1.6                        | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJC476M006#                       | C            | 47                  | 6.3                     | 5.7                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB686M006#                       | B            | 68                  | 6.3                     | 8.2                 | 20              | 1.5                        | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V. DCL is measured at rated voltage after 5 minutes. MSL level: see packaging and reel label.

NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.

## Niobium Oxide Capacitor

### RATINGS & PART NUMBER REFERENCE

| AVX<br>Part No.                  | Case<br>Size | Capacitance<br>(μF) | Rated<br>Voltage<br>(V) | DCL<br>(μA)<br>Max. | DF<br>%<br>Max. | ESR<br>Max. (Ω)<br>@100kHz | 100kHz Ripple Current (A) |       |       | 100kHz Ripple Voltage (V) |       |       |
|----------------------------------|--------------|---------------------|-------------------------|---------------------|-----------------|----------------------------|---------------------------|-------|-------|---------------------------|-------|-------|
|                                  |              |                     |                         |                     |                 |                            | 25°C                      | 85°C  | 105°C | 25°C                      | 85°C  | 105°C |
| 6.3 Volt @ 85°C (4 Volt @ 105°C) |              |                     |                         |                     |                 |                            |                           |       |       |                           |       |       |
| NOJC686M006#                     | C            | 68                  | 6.3                     | 8.2                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB107M006#                     | B            | 100                 | 6.3                     | 60.0                | 20              | 1.7                        | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJC107M006#                     | C            | 100                 | 6.3                     | 12.0                | 8               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD107M006#                     | D            | 100                 | 6.3                     | 12.0                | 6               | 0.4                        | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJC157M006#                     | C            | 150                 | 6.3                     | 18.0                | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD157M006#                     | D            | 150                 | 6.3                     | 18.0                | 6               | 0.4                        | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJC227M006#                     | C            | 220                 | 6.3                     | 26.4                | 14              | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD227M006#                     | D            | 220                 | 6.3                     | 26.4                | 8               | 0.4                        | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJE227M006#                     | E            | 220                 | 6.3                     | 26.4                | 12              | 0.4                        | 0.704                     | 0.633 | 0.281 | 0.281                     | 0.253 | 0.113 |
| NOJD337M006#                     | D            | 330                 | 6.3                     | 39.6                | 10              | 0.3                        | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJE337M006#                     | E            | 330                 | 6.3                     | 39.6                | 12              | 0.3                        | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJE477M006#                     | E            | 470                 | 6.3                     | 56.4                | 10              | 0.3                        | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJV477M006#                     | V            | 470                 | 6.3                     | 56.4                | 12              | 0.3                        | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| 10 Volt @ 85°C (7 Volt @ 105°C)  |              |                     |                         |                     |                 |                            |                           |       |       |                           |       |       |
| NOJA475M010#                     | A            | 4.7                 | 10                      | 1.0                 | 6               | 3.1                        | 0.170                     | 0.153 | 0.068 | 0.528                     | 0.475 | 0.211 |
| NOJA685M010#                     | A            | 6.8                 | 10                      | 1.4                 | 6               | 2.6                        | 0.186                     | 0.167 | 0.074 | 0.484                     | 0.435 | 0.193 |
| NOJA106M010#                     | A            | 10                  | 10                      | 2.0                 | 6               | 2.2                        | 0.202                     | 0.182 | 0.081 | 0.445                     | 0.400 | 0.178 |
| NOJB106M010#                     | B            | 10                  | 10                      | 2.0                 | 6               | 2.2                        | 0.215                     | 0.194 | 0.086 | 0.474                     | 0.426 | 0.189 |
| NOJA156M010#                     | A            | 15                  | 10                      | 3.0                 | 6               | 2                          | 0.212                     | 0.191 | 0.085 | 0.424                     | 0.382 | 0.170 |
| NOJB156M010#                     | B            | 15                  | 10                      | 3.0                 | 6               | 2                          | 0.226                     | 0.203 | 0.090 | 0.452                     | 0.406 | 0.181 |
| NOJB226M010#                     | B            | 22                  | 10                      | 4.4                 | 6               | 1.8                        | 0.238                     | 0.214 | 0.095 | 0.428                     | 0.386 | 0.171 |
| NOJC226M010#                     | C            | 22                  | 10                      | 4.4                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJC336M010#                     | C            | 33                  | 10                      | 6.6                 | 6               | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJC476M010#                     | C            | 47                  | 10                      | 9.4                 | 6               | 0.4                        | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC686M010#                     | C            | 68                  | 10                      | 13.6                | 12              | 0.5                        | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJD107M010#                     | D            | 100                 | 10                      | 20.0                | 12              | 0.4                        | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |

All technical data relates to an ambient temperature of +25°C. Capacitance and DF are measured at 120Hz, 0.5RMS with DC bias of 2.2V. DCL is measured at rated voltage after 5 minutes. MSL level: see packaging and reel label.

NOTE: AVX reserves the rights to supply higher voltage rating in the same case size, to the same reliability standards.