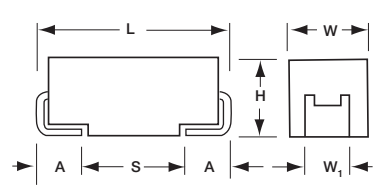


# OxiCap® NOJ Series



## Niobium Oxide Capacitor



### MARKING

#### A, B, C, D, E, V CASE



### FEATURES

- Non-burn safe technology
- Reliability level: 0.5%/1000 hrs.
- 6 case sizes available
- Environmentally friendly
- IBM global approval received in 2004
- Elektra Award received in 2005
- CV range: 4.7-1000µF / 1.8-10V



Elektra Award  
2005

### APPLICATIONS

- Automotive
- NB PCs
- Civil aircraft
- Industrial low voltage control circuits

### 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+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    | 1206     | 3216-18    | 3.20 (0.126)   | 1.60 (0.063)                    | 1.60 (0.063)                    | 1.20 (0.047)                 | 0.80 (0.031)                    | 1.10 (0.043) |
| B    | 1210     | 3528-21    | 3.50 (0.138)   | 2.80 (0.110)                    | 1.90 (0.075)                    | 2.20 (0.087)                 | 0.80 (0.031)                    | 1.40 (0.055) |
| C    | 2312     | 6032-28    | 6.00 (0.236)   | 3.20 (0.126)                    | 2.60 (0.102)                    | 2.20 (0.087)                 | 1.30 (0.051)                    | 2.90 (0.114) |
| D    | 2917     | 7343-31    | 7.30 (0.287)   | 4.30 (0.169)                    | 2.90 (0.114)                    | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |
| E    | 2917     | 7343-43    | 7.30 (0.287)   | 4.30 (0.169)                    | 4.10 (0.162)                    | 2.40 (0.094)                 | 1.30 (0.051)                    | 4.40 (0.173) |
| V    | 2924     | 7361-38    | 7.30 (0.287)   | 6.10 (0.240)                    | 3.55 (0.140)                    | 3.10 (0.120)                 | 1.30 (0.051)                    | 4.40 (0.173) |

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

### HOW TO ORDER

**NOJ**

Type

**D**

Case Size  
See table above

**107**

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

**M**

Tolerance  
M=±20%

**006**

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

**R**

Packaging  
R = Pure Tin 7" Reel  
S = Pure Tin 13" Reel

**WJ**

Standard Suffix  
OR  
**WB**  
Low ESR Suffix

**-**

Additional characters may be added for special requirements  
V = Dry pack Option (selected codes only) with exception of D, E, V cases

### TECHNICAL SPECIFICATIONS

Technical Data:

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

Capacitance Range: 4.7 µF to 1000 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 |  |
| Surge Voltage (V <sub>S</sub> )    | ≤ +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/B(700) |
| 33          | 336  |                                                               | A/B      | A/B        | B/C/B(700)   | C          |
| 47          | 476  | A                                                             | A/B      | A/B/C      | B/C          | C          |
| 68          | 686  | B                                                             | B/C      | B/C        | B/C          | C          |
| 100         | 107  | B/C                                                           | B/C      | B/C/B(250) | B/C/D/B(400) | D/D(150)   |
| 150         | 157  | C                                                             | C        | 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/E(75)    |            |
| 680         | 687  |                                                               | E        | E/V        |              |            |
| 1000        | 108  |                                                               | V        | V          |              |            |

Released codes

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.



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) | 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 (A) |       |       |  |
|-----------------|--------------|---------------------|-------------------------|------------------------------|----------------------------|---------------------------------|---------------------|-----------------|-----------------------------|-----|------------------------|-------|-------|--|
|                 |              |                     |                         |                              |                            |                                 |                     |                 |                             |     | 25°C                   | 85°C  | 105°C |  |
| 1.8 Volt @ 85°C |              |                     |                         |                              |                            |                                 |                     |                 |                             |     |                        |       |       |  |
| NOJA476M001#WJ  | A            | 47                  | 1.8                     | 85                           | 1.2                        | 105                             | 1.7                 | 8               | 1.6                         | 1   | 0.237                  | 0.213 | 0.095 |  |
| NOJB476M001#WJ  | B            | 47                  | 1.8                     | 85                           | 1.2                        | 105                             | 1.7                 | 6               | 1.6                         | 1   | 0.252                  | 0.227 | 0.101 |  |
| NOJB686M001#WJ  | B            | 68                  | 1.8                     | 85                           | 1.2                        | 105                             | 2.5                 | 6               | 1.5                         | 1   | 0.261                  | 0.235 | 0.104 |  |
| NOJB107M001#WJ  | B            | 100                 | 1.8                     | 85                           | 1.2                        | 105                             | 3.6                 | 6               | 1.4                         | 1   | 0.270                  | 0.243 | 0.108 |  |
| NOJC107M001#WJ  | C            | 100                 | 1.8                     | 85                           | 1.2                        | 105                             | 3.6                 | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC157M001#WJ  | C            | 150                 | 1.8                     | 85                           | 1.2                        | 105                             | 5.4                 | 8               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC227M001#WJ  | C            | 220                 | 1.8                     | 85                           | 1.2                        | 105                             | 8.0                 | 8               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC337M001#WJ  | C            | 330                 | 1.8                     | 85                           | 1.2                        | 105                             | 11.9                | 8               | 0.3                         | 1   | 0.663                  | 0.597 | 0.265 |  |
| 2.5 Volt @ 85°C |              |                     |                         |                              |                            |                                 |                     |                 |                             |     |                        |       |       |  |
| NOJA226M002#WJ  | A            | 22                  | 2.5                     | 85                           | 1.7                        | 105                             | 1.1                 | 6               | 1.9                         | 1   | 0.218                  | 0.196 | 0.087 |  |
| NOJA336M002#WJ  | A            | 33                  | 2.5                     | 85                           | 1.7                        | 105                             | 1.7                 | 6               | 1.7                         | 1   | 0.230                  | 0.207 | 0.092 |  |
| NOJB336M002#WJ  | B            | 33                  | 2.5                     | 85                           | 1.7                        | 105                             | 1.7                 | 6               | 1.7                         | 1   | 0.245                  | 0.220 | 0.098 |  |
| NOJA476M002#WJ  | A            | 47                  | 2.5                     | 85                           | 1.7                        | 105                             | 2.4                 | 8               | 1.6                         | 1   | 0.237                  | 0.213 | 0.095 |  |
| NOJB476M002#WJ  | B            | 47                  | 2.5                     | 85                           | 1.7                        | 105                             | 2.4                 | 6               | 1.6                         | 1   | 0.252                  | 0.227 | 0.101 |  |
| NOJB686M002#WJ  | B            | 68                  | 2.5                     | 85                           | 1.7                        | 105                             | 3.4                 | 6               | 1.5                         | 1   | 0.261                  | 0.235 | 0.104 |  |
| NOJC686M002#WJ  | C            | 68                  | 2.5                     | 85                           | 1.7                        | 105                             | 3.4                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |  |
| NOJB107M002#WJ  | B            | 100                 | 2.5                     | 85                           | 1.7                        | 105                             | 5.0                 | 6               | 1.4                         | 1   | 0.270                  | 0.243 | 0.108 |  |
| NOJC107M002#WJ  | C            | 100                 | 2.5                     | 85                           | 1.7                        | 105                             | 5.0                 | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC157M002#WJ  | C            | 150                 | 2.5                     | 85                           | 1.7                        | 105                             | 7.5                 | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC227M002#WJ  | C            | 220                 | 2.5                     | 85                           | 1.7                        | 105                             | 11.0                | 8               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC337M002#WJ  | C            | 330                 | 2.5                     | 85                           | 1.7                        | 105                             | 16.5                | 10              | 0.3                         | 1   | 0.663                  | 0.597 | 0.265 |  |
| NOJD337M002#WJ  | D            | 330                 | 2.5                     | 85                           | 1.7                        | 105                             | 16.5                | 10              | 0.3                         | 3   | 0.775                  | 0.697 | 0.310 |  |
| NOJD477M002#WJ  | D            | 470                 | 2.5                     | 85                           | 1.7                        | 105                             | 23.5                | 12              | 0.3                         | 3   | 0.775                  | 0.697 | 0.310 |  |
| NOJE477M002#WJ  | E            | 470                 | 2.5                     | 85                           | 1.7                        | 105                             | 23.5                | 10              | 0.3                         | 3   | 0.812                  | 0.731 | 0.325 |  |
| NOJE687M002#WJ  | E            | 680                 | 2.5                     | 85                           | 1.7                        | 105                             | 34.0                | 14              | 0.3                         | 3   | 0.812                  | 0.731 | 0.325 |  |
| NOJV108M002#WJ  | V            | 1000                | 2.5                     | 85                           | 1.7                        | 105                             | 50.0                | 16              | 0.3                         | 3   | 1.000                  | 0.900 | 0.400 |  |
| 4 Volt @ 85°C   |              |                     |                         |                              |                            |                                 |                     |                 |                             |     |                        |       |       |  |
| NOJA156M004#WJ  | A            | 15                  | 4                       | 85                           | 2.7                        | 105                             | 1.2                 | 6               | 2                           | 1   | 0.212                  | 0.191 | 0.085 |  |
| NOJA226M004#WJ  | A            | 22                  | 4                       | 85                           | 2.7                        | 105                             | 1.8                 | 6               | 1.9                         | 1   | 0.218                  | 0.196 | 0.087 |  |
| NOJB226M004#WJ  | B            | 22                  | 4                       | 85                           | 2.7                        | 105                             | 1.8                 | 6               | 1.9                         | 1   | 0.232                  | 0.209 | 0.093 |  |
| NOJA336M004#WJ  | A            | 33                  | 4                       | 85                           | 2.7                        | 105                             | 2.6                 | 10              | 1.7                         | 1   | 0.230                  | 0.207 | 0.092 |  |
| NOJB336M004#WJ  | B            | 33                  | 4                       | 85                           | 2.7                        | 105                             | 2.6                 | 6               | 1.7                         | 1   | 0.245                  | 0.220 | 0.098 |  |
| NOJA476M004#WJ  | A            | 47                  | 4                       | 85                           | 2.7                        | 105                             | 3.8                 | 18              | 2.2                         | 1   | 0.202                  | 0.182 | 0.081 |  |
| NOJB476M004#WJ  | B            | 47                  | 4                       | 85                           | 2.7                        | 105                             | 3.8                 | 6               | 1.6                         | 1   | 0.252                  | 0.227 | 0.101 |  |
| NOJC476M004#WJ  | C            | 47                  | 4                       | 85                           | 2.7                        | 105                             | 3.8                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |  |
| NOJB686M004#WJ  | B            | 68                  | 4                       | 85                           | 2.7                        | 105                             | 5.4                 | 6               | 1.5                         | 1   | 0.261                  | 0.235 | 0.104 |  |
| NOJC686M004#WJ  | C            | 68                  | 4                       | 85                           | 2.7                        | 105                             | 5.4                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |  |
| NOJB107M004#WJ  | B            | 100                 | 4                       | 85                           | 2.7                        | 105                             | 8.0                 | 16              | 1.4                         | 1   | 0.270                  | 0.243 | 0.108 |  |
| NOJB107M004#WB  | B            | 100                 | 4                       | 85                           | 2.7                        | 105                             | 8.0                 | 16              | 0.25                        | 3   | 0.639                  | 0.575 | 0.255 |  |
| NOJC107M004#WJ  | C            | 100                 | 4                       | 85                           | 2.7                        | 105                             | 8.0                 | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJC157M004#WJ  | C            | 150                 | 4                       | 85                           | 2.7                        | 105                             | 12.0                | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJD157M004#WJ  | D            | 150                 | 4                       | 85                           | 2.7                        | 105                             | 12.0                | 6               | 0.3                         | 3   | 0.775                  | 0.697 | 0.310 |  |
| NOJC227M004#WJ  | C            | 220                 | 4                       | 85                           | 2.7                        | 105                             | 17.6                | 8               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJD227M004#WJ  | D            | 220                 | 4                       | 85                           | 2.7                        | 105                             | 17.6                | 8               | 0.4                         | 3   | 0.671                  | 0.604 | 0.268 |  |
| NOJD337M004#WJ  | D            | 330                 | 4                       | 85                           | 2.7                        | 105                             | 26.4                | 8               | 0.3                         | 3   | 0.775                  | 0.697 | 0.310 |  |
| NOJD477M004#WJ  | D            | 470                 | 4                       | 85                           | 2.7                        | 105                             | 37.6                | 12              | 0.3                         | 3   | 0.775                  | 0.697 | 0.310 |  |
| NOJE477M004#WJ  | E            | 470                 | 4                       | 85                           | 2.7                        | 105                             | 37.6                | 12              | 0.3                         | 3   | 0.812                  | 0.731 | 0.325 |  |
| NOJE687M004#WJ  | E            | 680                 | 4                       | 85                           | 2.7                        | 105                             | 54.4                | 14              | 0.3                         | 3   | 0.812                  | 0.731 | 0.325 |  |
| NOJV687M004#WJ  | V            | 680                 | 4                       | 85                           | 2.7                        | 105                             | 54.4                | 14              | 0.3                         | 3   | 1.000                  | 0.900 | 0.400 |  |
| NOJV108M004#WJ  | V            | 1000                | 4                       | 85                           | 2.7                        | 105                             | 80.0                | 18              | 0.3                         | 3   | 1.000                  | 0.900 | 0.400 |  |
| 6.3 Volt @ 85°C |              |                     |                         |                              |                            |                                 |                     |                 |                             |     |                        |       |       |  |
| NOJA475M006#WJ  | A            | 4.7                 | 6.3                     | 85                           | 4                          | 105                             | 1.1                 | 6               | 3.2                         | 1   | 0.168                  | 0.151 | 0.067 |  |
| NOJA685M006#WJ  | A            | 6.8                 | 6.3                     | 85                           | 4                          | 105                             | 1.1                 | 6               | 2.6                         | 1   | 0.186                  | 0.167 | 0.074 |  |
| NOJA106M006#WJ  | A            | 10                  | 6.3                     | 85                           | 4                          | 105                             | 1.2                 | 6               | 2.2                         | 1   | 0.202                  | 0.182 | 0.081 |  |
| NOJA156M006#WJ  | A            | 15                  | 6.3                     | 85                           | 4                          | 105                             | 1.8                 | 8               | 2                           | 1   | 0.212                  | 0.191 | 0.085 |  |
| NOJB156M006#WJ  | B            | 15                  | 6.3                     | 85                           | 4                          | 105                             | 1.8                 | 6               | 2                           | 1   | 0.226                  | 0.203 | 0.090 |  |
| NOJA226M006#WJ  | A            | 22                  | 6.3                     | 85                           | 4                          | 105                             | 2.6                 | 8               | 1.8                         | 1   | 0.224                  | 0.201 | 0.089 |  |
| NOJB226M006#WJ  | B            | 22                  | 6.3                     | 85                           | 4                          | 105                             | 2.6                 | 6               | 1.9                         | 1   | 0.232                  | 0.209 | 0.093 |  |
| NOJB336M006#WJ  | B            | 33                  | 6.3                     | 85                           | 4                          | 105                             | 4.0                 | 6               | 1.7                         | 1   | 0.245                  | 0.220 | 0.098 |  |
| NOJB336M006#WB  | B            | 33                  | 6.3                     | 85                           | 4                          | 105                             | 4.0                 | 6               | 0.7                         | 3   | 0.382                  | 0.344 | 0.153 |  |
| NOJC336M006#WJ  | C            | 33                  | 6.3                     | 85                           | 4                          | 105                             | 4.0                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |  |
| NOJB476M006#WJ  | B            | 47                  | 6.3                     | 85                           | 4                          | 105                             | 5.6                 | 6               | 0.8                         | 1   | 0.357                  | 0.321 | 0.143 |  |
| NOJC476M006#WJ  | C            | 47                  | 6.3                     | 85                           | 4                          | 105                             | 5.7                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |  |
| NOJB686M006#WJ  | B            | 68                  | 6.3                     | 85                           | 4                          | 105                             | 8.2                 | 20              | 1.5                         | 1   | 0.261                  | 0.235 | 0.104 |  |
| NOJC686M006#WJ  | C            | 68                  | 6.3                     | 85                           | 4                          | 105                             | 8.2                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |  |
| NOJB107M006#WJ  | B            | 100                 | 6.3                     | 85                           | 4                          | 105                             | 60.0                | 20              | 1.7                         | 1   | 0.245                  | 0.220 | 0.098 |  |
| NOJB107M006#WB  | B            | 100                 | 6.3                     | 85                           | 4                          | 105                             | 60.0                | 20              | 0.4                         | 3   | 0.505                  | 0.454 | 0.202 |  |
| NOJC107M006#WJ  | C            | 100                 | 6.3                     | 85                           | 4                          | 105                             | 12.0                | 8               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |
| NOJD107M006#WJ  | D            | 100                 | 6.3                     | 85                           | 4                          | 105                             | 12.0                | 6               | 0.4                         | 3   | 0.671                  | 0.604 | 0.268 |  |
| NOJC157M006#WJ  | C            | 150                 | 6.3                     | 85                           | 4                          | 105                             | 18.0                | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |  |

## Niobium Oxide Capacitor

### 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 (A) |       |       |
|-----------------------|--------------|---------------------|-------------------------|------------------------------|----------------------------|---------------------------------|---------------------|-----------------|-----------------------------|-----|------------------------|-------|-------|
|                       |              |                     |                         |                              |                            |                                 |                     |                 |                             |     | 25°C                   | 85°C  | 105°C |
| NOJD157M006#WJ        | D            | 150                 | 6.3                     | 85                           | 4                          | 105                             | 18.0                | 6               | 0.4                         | 3   | 0.671                  | 0.604 | 0.268 |
| NOJC227M006#WJ        | C            | 220                 | 6.3                     | 85                           | 4                          | 105                             | 26.4                | 14              | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |
| NOJD227M006#WJ        | D            | 220                 | 6.3                     | 85                           | 4                          | 105                             | 26.4                | 8               | 0.4                         | 3   | 0.671                  | 0.604 | 0.268 |
| NOJE227M006#WJ        | E            | 220                 | 6.3                     | 85                           | 4                          | 105                             | 26.4                | 12              | 0.4                         | 3   | 0.704                  | 0.633 | 0.281 |
| NOJD337M006#WJ        | D            | 330                 | 6.3                     | 85                           | 4                          | 105                             | 39.6                | 10              | 0.3                         | 3   | 0.775                  | 0.697 | 0.310 |
| NOJE337M006#WJ        | E            | 330                 | 6.3                     | 85                           | 4                          | 105                             | 39.6                | 12              | 0.3                         | 3   | 0.812                  | 0.731 | 0.325 |
| NOJE477M006#WJ        | E            | 470                 | 6.3                     | 85                           | 4                          | 105                             | 56.4                | 16              | 0.3                         | 3   | 0.812                  | 0.731 | 0.325 |
| NOJE477M006#WB        | E            | 470                 | 6.3                     | 85                           | 4                          | 105                             | 56.4                | 16              | 0.075                       | 3   | 1.625                  | 1.462 | 0.650 |
| NOJV477M006#WJ        | V            | 470                 | 6.3                     | 85                           | 4                          | 105                             | 56.4                | 14              | 0.3                         | 3   | 1.000                  | 0.900 | 0.400 |
| <b>10 Volt @ 85°C</b> |              |                     |                         |                              |                            |                                 |                     |                 |                             |     |                        |       |       |
| NOJA475M010#WJ        | A            | 4.7                 | 10                      | 85                           | 7                          | 105                             | 1.0                 | 6               | 3.1                         | 1   | 0.170                  | 0.153 | 0.068 |
| NOJA685M010#WJ        | A            | 6.8                 | 10                      | 85                           | 7                          | 105                             | 1.4                 | 6               | 2.6                         | 1   | 0.186                  | 0.167 | 0.074 |
| NOJA106M010#WJ        | A            | 10                  | 10                      | 85                           | 7                          | 105                             | 2.0                 | 6               | 2.2                         | 1   | 0.202                  | 0.182 | 0.081 |
| NOJB106M010#WJ        | B            | 10                  | 10                      | 85                           | 7                          | 105                             | 2.0                 | 6               | 1                           | 1   | 0.319                  | 0.287 | 0.128 |
| NOJA156M010#WJ        | A            | 15                  | 10                      | 85                           | 7                          | 105                             | 3.0                 | 6               | 2                           | 1   | 0.212                  | 0.191 | 0.085 |
| NOJB156M010#WJ        | B            | 15                  | 10                      | 85                           | 7                          | 105                             | 3.0                 | 6               | 2                           | 1   | 0.226                  | 0.203 | 0.090 |
| NOJB226M010#WJ        | B            | 22                  | 10                      | 85                           | 7                          | 105                             | 4.4                 | 6               | 1.8                         | 1   | 0.238                  | 0.214 | 0.095 |
| NOJB226M010#WB        | B            | 22                  | 10                      | 85                           | 7                          | 105                             | 4.4                 | 6               | 0.7                         | 3   | 0.382                  | 0.344 | 0.153 |
| NOJC226M010#WJ        | C            | 22                  | 10                      | 85                           | 7                          | 105                             | 4.4                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |
| NOJC336M010#WJ        | C            | 33                  | 10                      | 85                           | 7                          | 105                             | 6.6                 | 6               | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |
| NOJC476M010#WJ        | C            | 47                  | 10                      | 85                           | 7                          | 105                             | 9.4                 | 6               | 0.4                         | 1   | 0.574                  | 0.517 | 0.230 |
| NOJC686M010#WJ        | C            | 68                  | 10                      | 85                           | 7                          | 105                             | 13.6                | 12              | 0.5                         | 1   | 0.514                  | 0.462 | 0.206 |
| NOJD107M010#WJ        | D            | 100                 | 10                      | 85                           | 7                          | 105                             | 20.0                | 12              | 0.4                         | 3   | 0.671                  | 0.604 | 0.268 |
| NOJD107M010#WB        | D            | 100                 | 10                      | 85                           | 7                          | 105                             | 20.0                | 12              | 0.15                        | 3   | 1.095                  | 0.986 | 0.438 |

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

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

DCL is measured at rated voltage after 5 minutes.

The EIA & CECC standards for capacitors allow an ESR movement to 1.25 times catalog limit post mounting.

For typical weight and composition see page 202.

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



## QUALIFICATION TABLE

\*Initial Limit