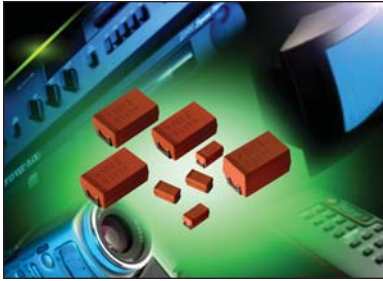


# OxiCap<sup>®</sup> NOJ Series



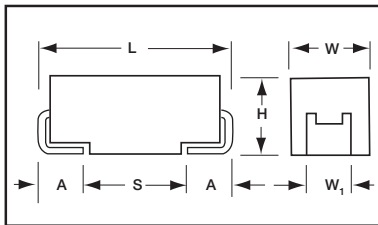
## Niobium Oxide Capacitor



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



Electra Award  
2005



For part marking see page 132

### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L $\pm$ 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> $\pm$ 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)                    | 3.45 $\pm$ 0.30<br>(0.136 $\pm$ 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

|             |                                     |  |                            |  |   |   |   |
|-------------|-------------------------------------|--|----------------------------|--|---|---|---|
| <b>NOJ</b>  | <b>D</b>                            | <b>107</b>   | <b>M</b>                   | <b>006</b>   | <b>R</b>  | <b>WJ</b>   | <b>-</b>  |
| <b>Type</b> | <b>Case Size</b><br>See table above | <b>Capacitance Code</b><br>1st two digits represent significant figures, 3rd digit represents multiplier in pF | <b>Tolerance</b><br>M=±20% | <b>Rated DC Voltage</b><br>001 = 1.8Vdc<br>002 = 2.5Vdc<br>004 = 4Vdc<br>006 = 6.3Vdc<br>010 = 10Vdc | <b>Packaging</b><br>R = Lead Free 7" Reel<br>S = Lead Free 13" Reel | <b>Specification Suffix</b><br>WJ = Standard Suffix | <b>Additional characters may be added for special requirements</b><br>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 $\mu$ F to 1000 $\mu$ F  |     |     |     |     |    |  |
| 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> , 0.1 $\Omega$ /V series impedance, 60% confidence level<br>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  | 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        | C/D    | C/D      | E*      |
| 220         | 227  | C   | C        | C/D    | C/D/E    | V*      |
| 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      |          |         |

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

# OxiCap® NOJ Series



## Niobium Oxide Capacitor

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.                              | Case Size | Cap (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz | 100kHz Ripple Current (A) |       |       | 100kHz Ripple Voltage (V) |       |       |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|---------------------------|-------|-------|---------------------------|-------|-------|
|   |           |          |                   |               |           |                      | 25°C                      | 85°C  | 105°C | 25°C                      | 85°C  | 105°C |
| <b>1.8 Volt @ 85°C (1.2 Volt @ 105°C)</b> |           |          |                   |               |           |                      |                           |       |       |                           |       |       |
| NOJA476M001#WJ                            | A         | 47       | 1.8               | 1.7           | 8         | 1.6                  | 0.237                     | 0.213 | 0.095 | 0.379                     | 0.342 | 0.152 |
| NOJB476M001#WJ                            | B         | 47       | 1.8               | 1.7           | 6         | 1.6                  | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJB686M001#WJ                            | B         | 68       | 1.8               | 2.5           | 6         | 1.5                  | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJB107M001#WJ                            | B         | 100      | 1.8               | 3.6           | 6         | 1.4                  | 0.270                     | 0.243 | 0.108 | 0.378                     | 0.340 | 0.151 |
| NOJC107M001#WJ                            | C         | 100      | 1.8               | 3.6           | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC157M001#WJ                            | C         | 150      | 1.8               | 5.4           | 8         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC227M001#WJ                            | C         | 220      | 1.8               | 8.0           | 8         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC337M001#WJ                            | C         | 330      | 1.8               | 11.9          | 8         | 0.3                  | 0.663                     | 0.597 | 0.265 | 0.199                     | 0.179 | 0.080 |
| <b>2.5 Volt @ 85°C (1.7 Volt @ 105°C)</b> |           |          |                   |               |           |                      |                           |       |       |                           |       |       |
| NOJA226M002#WJ                            | A         | 22       | 2.5               | 1.1           | 6         | 1.9                  | 0.218                     | 0.196 | 0.087 | 0.414                     | 0.372 | 0.165 |
| NOJA336M002#WJ                            | A         | 33       | 2.5               | 1.7           | 6         | 1.7                  | 0.230                     | 0.207 | 0.092 | 0.391                     | 0.352 | 0.156 |
| NOJB336M002#WJ                            | B         | 33       | 2.5               | 1.7           | 6         | 1.7                  | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJA476M002#WJ                            | A         | 47       | 2.5               | 2.4           | 8         | 1.6                  | 0.237                     | 0.213 | 0.095 | 0.379                     | 0.342 | 0.152 |
| NOJB476M002#WJ                            | B         | 47       | 2.5               | 2.4           | 6         | 1.6                  | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJB686M002#WJ                            | B         | 68       | 2.5               | 3.4           | 6         | 1.5                  | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJC686M002#WJ                            | C         | 68       | 2.5               | 3.4           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB107M002#WJ                            | B         | 100      | 2.5               | 5.0           | 6         | 1.4                  | 0.270                     | 0.243 | 0.108 | 0.378                     | 0.340 | 0.151 |
| NOJC107M002#WJ                            | C         | 100      | 2.5               | 5.0           | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC157M002#WJ                            | C         | 150      | 2.5               | 7.5           | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC227M002#WJ                            | C         | 220      | 2.5               | 11.0          | 8         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC337M002#WJ                            | C         | 330      | 2.5               | 16.5          | 10        | 0.3                  | 0.663                     | 0.597 | 0.265 | 0.199                     | 0.179 | 0.080 |
| NOJD337M002#WJ                            | D         | 330      | 2.5               | 16.5          | 10        | 0.3                  | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJD477M002#WJ                            | D         | 470      | 2.5               | 23.5          | 10        | 0.3                  | 0.775                     | 0.697 | 0.310 | 0.323                     | 0.209 | 0.093 |
| NOJE477M002#WJ                            | E         | 470      | 2.5               | 23.5          | 10        | 0.3                  | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJE687M002#WJ                            | E         | 680      | 2.5               | 34.0          | 12        | 0.3                  | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJV108M002#WJ                            | V         | 1000     | 2.5               | 50.0          | 18        | 0.3                  | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| <b>4 Volt @ 85°C (2.7 Volt @ 105°C)</b>   |           |          |                   |               |           |                      |                           |       |       |                           |       |       |
| NOJA156M004#WJ                            | A         | 15       | 4                 | 1.2           | 6         | 2                    | 0.212                     | 0.191 | 0.085 | 0.424                     | 0.382 | 0.170 |
| NOJA226M004#WJ                            | A         | 22       | 4                 | 1.8           | 6         | 1.9                  | 0.218                     | 0.196 | 0.087 | 0.414                     | 0.372 | 0.165 |
| NOJB226M004#WJ                            | B         | 22       | 4                 | 1.8           | 6         | 1.9                  | 0.232                     | 0.209 | 0.093 | 0.440                     | 0.396 | 0.176 |
| NOJA336M004#WJ                            | A         | 33       | 4                 | 2.6           | 10        | 1.7                  | 0.230                     | 0.207 | 0.092 | 0.391                     | 0.352 | 0.156 |
| NOJB336M004#WJ                            | B         | 33       | 4                 | 2.6           | 6         | 1.7                  | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJA476M004#WJ                            | A         | 47       | 4                 | 3.8           | 18        | 2.2                  | 0.202                     | 0.182 | 0.081 | 0.445                     | 0.400 | 0.178 |
| NOJB476M004#WJ                            | B         | 47       | 4                 | 3.8           | 6         | 1.6                  | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJC476M004#WJ                            | C         | 47       | 4                 | 3.8           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB686M004#WJ                            | B         | 68       | 4                 | 5.4           | 6         | 1.5                  | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJC686M004#WJ                            | C         | 68       | 4                 | 5.4           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB107M004#WJ                            | B         | 100      | 4                 | 8.0           | 16        | 1.4                  | 0.270                     | 0.243 | 0.108 | 0.378                     | 0.340 | 0.151 |
| NOJC107M004#WJ                            | C         | 100      | 4                 | 8.0           | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC157M004#WJ                            | C         | 150      | 4                 | 12.0          | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD157M004#WJ                            | D         | 150      | 4                 | 12.0          | 6         | 0.3                  | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJC227M004#WJ                            | C         | 220      | 4                 | 17.6          | 8         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD227M004#WJ                            | D         | 220      | 4                 | 17.6          | 8         | 0.4                  | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJD337M004#WJ                            | D         | 330      | 4                 | 26.4          | 8         | 0.3                  | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJD477M004#WJ                            | D         | 470      | 4                 | 37.6          | 12        | 0.3                  | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJE477M004#WJ                            | E         | 470      | 4                 | 37.6          | 12        | 0.3                  | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJE687M004#WJ                            | E         | 680      | 4                 | 54.4          | 14        | 0.3                  | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJV687M004#WJ                            | V         | 680      | 4                 | 54.4          | 14        | 0.3                  | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| NOJV108M004#WJ                            | V         | 1000     | 4                 | 80.0          | 18        | 0.3                  | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| <b>6.3 Volt @ 85°C (4 Volt @ 105°C)</b>   |           |          |                   |               |           |                      |                           |       |       |                           |       |       |
| NOJA475M006#WJ                            | A         | 4.7      | 6.3               | 1.1           | 6         | 3.2                  | 0.168                     | 0.151 | 0.067 | 0.537                     | 0.483 | 0.215 |
| NOJA685M006#WJ                            | A         | 6.8      | 6.3               | 1.1           | 6         | 2.6                  | 0.186                     | 0.167 | 0.074 | 0.484                     | 0.435 | 0.193 |
| NOJA106M006#WJ                            | A         | 10       | 6.3               | 1.2           | 6         | 2.2                  | 0.202                     | 0.182 | 0.081 | 0.445                     | 0.400 | 0.178 |
| NOJB156M006#WJ                            | B         | 15       | 6.3               | 1.8           | 6         | 2                    | 0.226                     | 0.203 | 0.090 | 0.452                     | 0.406 | 0.181 |
| NOJA156M006#WJ                            | A         | 15       | 6.3               | 1.8           | 8         | 2                    | 0.212                     | 0.191 | 0.085 | 0.424                     | 0.382 | 0.170 |
| NOJB226M006#WJ                            | B         | 22       | 6.3               | 2.6           | 6         | 1.9                  | 0.232                     | 0.209 | 0.093 | 0.440                     | 0.396 | 0.176 |
| NOJA226M006#WJ                            | A         | 22       | 6.3               | 2.6           | 8         | 1.8                  | 0.224                     | 0.201 | 0.089 | 0.402                     | 0.362 | 0.161 |
| NOJB336M006#WJ                            | B         | 33       | 6.3               | 4.0           | 6         | 1.7                  | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |

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 page 123 (6. Moisture Sensitivity Level) or packaging and reel label.

#Standard Plating – Insert R for 7" reel and S for 13" reel

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



## Niobium Oxide Capacitor

### RATINGS & PART NUMBER REFERENCE

| AVX Part No.                            | Case Size | Cap (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz | 100kHz Ripple Current (A) |       |       | 100kHz Ripple Voltage (V) |       |       |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|---------------------------|-------|-------|---------------------------|-------|-------|
|   |           |          |                   |               |           |                      | 25°C                      | 85°C  | 105°C | 25°C                      | 85°C  | 105°C |
| <b>6.3 Volt @ 85°C (4 Volt @ 105°C)</b> |           |          |                   |               |           |                      |                           |       |       |                           |       |       |
| NOJB336M006#WB                          | B         | 33       | 6.3               | 4.0           | 6         | 0.7                  | 0.382                     | 0.344 | 0.153 | 0.267                     | 0.240 | 0.170 |
| NOJC336M006#WJ                          | C         | 33       | 6.3               | 4.0           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB476M006#WJ                          | B         | 47       | 6.3               | 5.6           | 6         | 1.6                  | 0.252                     | 0.227 | 0.101 | 0.404                     | 0.364 | 0.162 |
| NOJC476M006#WJ                          | C         | 47       | 6.3               | 5.7           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB686M006#WJ                          | B         | 68       | 6.3               | 8.2           | 20        | 1.5                  | 0.261                     | 0.235 | 0.104 | 0.391                     | 0.352 | 0.156 |
| NOJC686M006#WJ                          | C         | 68       | 6.3               | 8.2           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJB107M006#WJ                          | B         | 100      | 6.3               | 60.0          | 20        | 1.7                  | 0.245                     | 0.220 | 0.098 | 0.416                     | 0.375 | 0.167 |
| NOJB107M006#WB                          | B         | 100      | 6.3               | 60.0          | 20        | 0.4                  | 0.505                     | 0.454 | 0.202 | 0.202                     | 0.182 | 0.081 |
| NOJC107M006#WJ                          | C         | 100      | 6.3               | 12.0          | 8         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD107M006#WJ                          | D         | 100      | 6.3               | 12.0          | 6         | 0.4                  | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJC157M006#WJ                          | C         | 150      | 6.3               | 18.0          | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD157M006#WJ                          | D         | 150      | 6.3               | 18.0          | 6         | 0.4                  | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJC227M006#WJ                          | C         | 220      | 6.3               | 26.4          | 14        | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJD227M006#WJ                          | D         | 220      | 6.3               | 26.4          | 8         | 0.4                  | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJE227M006#WJ                          | E         | 220      | 6.3               | 26.4          | 12        | 0.4                  | 0.704                     | 0.633 | 0.281 | 0.281                     | 0.253 | 0.113 |
| NOJD337M006#WJ                          | D         | 330      | 6.3               | 39.6          | 10        | 0.3                  | 0.775                     | 0.697 | 0.310 | 0.232                     | 0.209 | 0.093 |
| NOJE337M006#WJ                          | E         | 330      | 6.3               | 39.6          | 12        | 0.3                  | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJE477M006#WJ                          | E         | 470      | 6.3               | 56.4          | 16        | 0.3                  | 0.812                     | 0.731 | 0.325 | 0.244                     | 0.219 | 0.097 |
| NOJV477M006#WJ                          | V         | 470      | 6.3               | 56.4          | 12        | 0.3                  | 1.000                     | 0.900 | 0.400 | 0.300                     | 0.270 | 0.120 |
| <b>10 Volt @ 85°C (7 Volt @ 105°C)</b>  |           |          |                   |               |           |                      |                           |       |       |                           |       |       |
| NOJA475M010#WJ                          | A         | 4.7      | 10                | 1.0           | 6         | 3.1                  | 0.170                     | 0.153 | 0.068 | 0.528                     | 0.475 | 0.211 |
| NOJA685M010#WJ                          | A         | 6.8      | 10                | 1.4           | 6         | 2.6                  | 0.186                     | 0.167 | 0.074 | 0.484                     | 0.435 | 0.193 |
| NOJA106M010#WJ                          | A         | 10       | 10                | 2.0           | 6         | 2.2                  | 0.202                     | 0.182 | 0.081 | 0.445                     | 0.400 | 0.178 |
| NOJB106M010#WJ                          | B         | 10       | 10                | 2.0           | 6         | 2.2                  | 0.215                     | 0.194 | 0.086 | 0.474                     | 0.426 | 0.189 |
| NOJA156M010#WJ                          | A         | 15       | 10                | 3.0           | 6         | 2                    | 0.212                     | 0.191 | 0.085 | 0.424                     | 0.382 | 0.170 |
| NOJB156M010#WJ                          | B         | 15       | 10                | 3.0           | 6         | 2                    | 0.226                     | 0.203 | 0.090 | 0.452                     | 0.406 | 0.181 |
| NOJB226M010#WJ                          | B         | 22       | 10                | 4.4           | 6         | 1.8                  | 0.238                     | 0.214 | 0.095 | 0.428                     | 0.386 | 0.171 |
| NOJB226M010#WB                          | B         | 22       | 10                | 4.4           | 6         | 0.7                  | 0.382                     | 0.344 | 0.153 | 0.267                     | 0.240 | 0.107 |
| NOJC226M010#WJ                          | C         | 22       | 10                | 4.4           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJC336M010#WJ                          | C         | 33       | 10                | 6.6           | 6         | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJC476M010#WJ                          | C         | 47       | 10                | 9.4           | 6         | 0.4                  | 0.574                     | 0.517 | 0.230 | 0.230                     | 0.207 | 0.092 |
| NOJC686M010#WJ                          | C         | 68       | 10                | 13.6          | 12        | 0.5                  | 0.514                     | 0.462 | 0.206 | 0.257                     | 0.231 | 0.103 |
| NOJD107M010#WJ                          | D         | 100      | 10                | 20.0          | 12        | 0.4                  | 0.671                     | 0.604 | 0.268 | 0.268                     | 0.241 | 0.107 |
| NOJD107M010#WB                          | D         | 100      | 10                | 20.0          | 12        | 0.15                 | 1.095                     | 0.986 | 0.438 | 0.164                     | 0.148 | 0.066 |
| NOJE157M010#WJ                          | E         | 150      | 10                | 30.0          | 6         | 0.4                  | 0.704                     | 0.633 | 0.281 | 0.281                     | 0.253 | 0.113 |

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 page 123 (6. Moisture Sensitivity Level) or packaging and reel label.

#Standard Plating – Insert R for 7" reel and S for 13" reel

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