

# OxiCap® NOJ Series



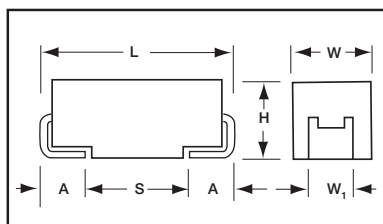
## Niobium Oxide Capacitor



- 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 130

### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L $\pm$ 0.20 (0.008) | W $\pm$ 0.20 (0.008)<br>-0.10 (0.004) | H $\pm$ 0.20 (0.008)<br>-0.10 (0.004) | W $\pm$ 0.20 (0.008) | A $\pm$ 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  | D                            | 107                                                                                                     | M                   | 006                                                                                           | R                                                          | WJ                                           | -                                                                                                                                        |
|------|------------------------------|---------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Type | Case Size<br>See table above | Capacitance Code<br>1st two digits represent significant figures, 3rd digit represents multiplier in pF | Tolerance<br>M=±20% | Rated DC Voltage<br>001 = 1.8Vdc<br>002 = 2.5Vdc<br>004 = 4Vdc<br>006 = 6.3Vdc<br>010 = 10Vdc | Packaging<br>R = Pure Tin 7" Reel<br>S = Pure Tin 13" Reel | Specification Suffix<br>WJ = Standard Suffix | Additional characters may be added for special requirements<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:             |                | $\pm$ 20%                                                                                            |     |     |     |    |  |
| Leakage Current DCL:               |                | 0.02CV                                                                                               |     |     |     |    |  |
| Rated Voltage DC (V <sub>R</sub> ) | $\leq$ +85°C:  | 1.8                                                                                                  | 2.5 | 4   | 6.3 | 10 |  |
| Category Voltage (V <sub>C</sub> ) | $\leq$ +105°C: | 1.2                                                                                                  | 1.7 | 2.7 | 4   | 7  |  |
| Surge Voltage (V <sub>S</sub> )    | $\leq$ +85°C:  | 2.3                                                                                                  | 3.3 | 5.2 | 8   | 13 |  |
| Surge Voltage (V <sub>S</sub> )    | $\leq$ +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 |     |     |     |    |  |
|                                    |                | 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        | 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

## 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 | MSL | 100kHz RMS Current (A) |       |       | 100kHz RMS 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#WJ                     | A            | 47                  | 1.8                     | 1.7                 | 8               | 1.6                        | 1   | 0.237                  | 0.213 | 0.095 | 0.379                  | 0.342 | 0.152 |
| NOJB476M001#WJ                     | B            | 47                  | 1.8                     | 1.7                 | 6               | 1.6                        | 1   | 0.252                  | 0.227 | 0.101 | 0.404                  | 0.364 | 0.162 |
| NOJB686M001#WJ                     | B            | 68                  | 1.8                     | 2.5                 | 6               | 1.5                        | 1   | 0.261                  | 0.235 | 0.104 | 0.391                  | 0.352 | 0.156 |
| NOJB107M001#WJ                     | B            | 100                 | 1.8                     | 3.6                 | 6               | 1.4                        | 1   | 0.270                  | 0.243 | 0.108 | 0.378                  | 0.340 | 0.151 |
| NOJC107M001#WJ                     | C            | 100                 | 1.8                     | 3.6                 | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC157M001#WJ                     | C            | 150                 | 1.8                     | 5.4                 | 8               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC227M001#WJ                     | C            | 220                 | 1.8                     | 8.0                 | 8               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC337M001#WJ                     | C            | 330                 | 1.8                     | 11.9                | 8               | 0.3                        | 1   | 0.663                  | 0.597 | 0.265 | 0.199                  | 0.179 | 0.080 |
| 2.5 Volt @ 85°C (1.7 Volt @ 105°C) |              |                     |                         |                     |                 |                            |     |                        |       |       |                        |       |       |
| NOJA226M002#WJ                     | A            | 22                  | 2.5                     | 1.1                 | 6               | 1.9                        | 1   | 0.218                  | 0.196 | 0.087 | 0.414                  | 0.372 | 0.165 |
| NOJA336M002#WJ                     | A            | 33                  | 2.5                     | 1.7                 | 6               | 1.7                        | 1   | 0.230                  | 0.207 | 0.092 | 0.391                  | 0.352 | 0.156 |
| NOJB336M002#WJ                     | B            | 33                  | 2.5                     | 1.7                 | 6               | 1.7                        | 1   | 0.245                  | 0.220 | 0.098 | 0.416                  | 0.375 | 0.167 |
| NOJA476M002#WJ                     | A            | 47                  | 2.5                     | 2.4                 | 8               | 1.6                        | 1   | 0.237                  | 0.213 | 0.095 | 0.379                  | 0.342 | 0.152 |
| NOJB476M002#WJ                     | B            | 47                  | 2.5                     | 2.4                 | 6               | 1.6                        | 1   | 0.252                  | 0.227 | 0.101 | 0.404                  | 0.364 | 0.162 |
| NOJB686M002#WJ                     | B            | 68                  | 2.5                     | 3.4                 | 6               | 1.5                        | 1   | 0.261                  | 0.235 | 0.104 | 0.391                  | 0.352 | 0.156 |
| NOJC686M002#WJ                     | C            | 68                  | 2.5                     | 3.4                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJB107M002#WJ                     | B            | 100                 | 2.5                     | 5.0                 | 6               | 1.4                        | 1   | 0.270                  | 0.243 | 0.108 | 0.378                  | 0.340 | 0.151 |
| NOJC107M002#WJ                     | C            | 100                 | 2.5                     | 5.0                 | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC157M002#WJ                     | C            | 150                 | 2.5                     | 7.5                 | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC227M002#WJ                     | C            | 220                 | 2.5                     | 11.0                | 8               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC337M002#WJ                     | C            | 330                 | 2.5                     | 16.5                | 10              | 0.3                        | 1   | 0.663                  | 0.597 | 0.265 | 0.199                  | 0.179 | 0.080 |
| NOJD337M002#WJ                     | D            | 330                 | 2.5                     | 16.5                | 10              | 0.3                        | 3   | 0.775                  | 0.697 | 0.310 | 0.232                  | 0.209 | 0.093 |
| NOJD477M002#WJ                     | D            | 470                 | 2.5                     | 23.5                | 10              | 0.3                        | 3   | 0.775                  | 0.697 | 0.310 | 0.323                  | 0.209 | 0.093 |
| NOJE477M002#WJ                     | E            | 470                 | 2.5                     | 23.5                | 10              | 0.3                        | 3   | 0.812                  | 0.731 | 0.325 | 0.244                  | 0.219 | 0.097 |
| NOJE687M002#WJ                     | E            | 680                 | 2.5                     | 34.0                | 12              | 0.3                        | 3   | 0.812                  | 0.731 | 0.325 | 0.244                  | 0.219 | 0.097 |
| NOJV108M002#WJ                     | V            | 1000                | 2.5                     | 50.0                | 18              | 0.3                        | 3   | 1.000                  | 0.900 | 0.400 | 0.300                  | 0.270 | 0.120 |
| 4 Volt @ 85°C (2.7 Volt @ 105°C)   |              |                     |                         |                     |                 |                            |     |                        |       |       |                        |       |       |
| NOJA156M004#WJ                     | A            | 15                  | 4                       | 1.2                 | 6               | 2                          | 1   | 0.212                  | 0.191 | 0.085 | 0.424                  | 0.382 | 0.170 |
| NOJA226M004#WJ                     | A            | 22                  | 4                       | 1.8                 | 6               | 1.9                        | 1   | 0.218                  | 0.196 | 0.087 | 0.414                  | 0.372 | 0.165 |
| NOJB226M004#WJ                     | B            | 22                  | 4                       | 1.8                 | 6               | 1.9                        | 1   | 0.232                  | 0.209 | 0.093 | 0.440                  | 0.396 | 0.176 |
| NOJA336M004#WJ                     | A            | 33                  | 4                       | 2.6                 | 10              | 1.7                        | 1   | 0.230                  | 0.207 | 0.092 | 0.391                  | 0.352 | 0.156 |
| NOJB336M004#WJ                     | B            | 33                  | 4                       | 2.6                 | 6               | 1.7                        | 1   | 0.245                  | 0.220 | 0.098 | 0.416                  | 0.375 | 0.167 |
| NOJA476M004#WJ                     | A            | 47                  | 4                       | 3.8                 | 18              | 2.2                        | 1   | 0.202                  | 0.182 | 0.081 | 0.445                  | 0.400 | 0.178 |
| NOJB476M004#WJ                     | B            | 47                  | 4                       | 3.8                 | 6               | 1.6                        | 1   | 0.252                  | 0.227 | 0.101 | 0.404                  | 0.364 | 0.162 |
| NOJC476M004#WJ                     | C            | 47                  | 4                       | 3.8                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJB686M004#WJ                     | B            | 68                  | 4                       | 5.4                 | 6               | 1.5                        | 1   | 0.261                  | 0.235 | 0.104 | 0.391                  | 0.352 | 0.156 |
| NOJC686M004#WJ                     | C            | 68                  | 4                       | 5.4                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJB107M004#WJ                     | B            | 100                 | 4                       | 8.0                 | 16              | 1.4                        | 1   | 0.270                  | 0.243 | 0.108 | 0.378                  | 0.340 | 0.151 |
| NOJB107M004#WB                     | B            | 100                 | 4                       | 8.0                 | 16              | 0.25                       | 1   | 0.639                  | 0.575 | 0.255 | 0.160                  | 0.144 | 0.064 |
| NOJC107M004#WJ                     | C            | 100                 | 4                       | 8.0                 | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC157M004#WJ                     | C            | 150                 | 4                       | 12.0                | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJD157M004#WJ                     | D            | 150                 | 4                       | 12.0                | 6               | 0.3                        | 3   | 0.775                  | 0.697 | 0.310 | 0.232                  | 0.209 | 0.093 |
| NOJC227M004#WJ                     | C            | 220                 | 4                       | 17.6                | 8               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJD227M004#WJ                     | D            | 220                 | 4                       | 17.6                | 8               | 0.4                        | 3   | 0.671                  | 0.604 | 0.268 | 0.268                  | 0.241 | 0.107 |
| NOJD337M004#WJ                     | D            | 330                 | 4                       | 26.4                | 8               | 0.3                        | 3   | 0.775                  | 0.697 | 0.310 | 0.232                  | 0.209 | 0.093 |
| NOJD477M004#WJ                     | D            | 470                 | 4                       | 37.6                | 12              | 0.3                        | 3   | 0.775                  | 0.697 | 0.310 | 0.232                  | 0.209 | 0.093 |
| NOJE477M004#WJ                     | E            | 470                 | 4                       | 37.6                | 12              | 0.3                        | 3   | 0.812                  | 0.731 | 0.325 | 0.244                  | 0.219 | 0.097 |
| NOJE687M004#WJ                     | E            | 680                 | 4                       | 54.4                | 14              | 0.3                        | 3   | 0.812                  | 0.731 | 0.325 | 0.244                  | 0.219 | 0.097 |
| NOJV687M004#WJ                     | V            | 680                 | 4                       | 54.4                | 14              | 0.3                        | 3   | 1.000                  | 0.900 | 0.400 | 0.300                  | 0.270 | 0.120 |
| NOJV108M004#WJ                     | V            | 1000                | 4                       | 80.0                | 18              | 0.3                        | 3   | 1.000                  | 0.900 | 0.400 | 0.300                  | 0.270 | 0.120 |
| 6.3 Volt @ 85°C (4 Volt @ 105°C)   |              |                     |                         |                     |                 |                            |     |                        |       |       |                        |       |       |
| NOJA475M006#WJ                     | A            | 4.7                 | 6.3                     | 1.1                 | 6               | 3.2                        | 1   | 0.168                  | 0.151 | 0.067 | 0.537                  | 0.483 | 0.215 |
| NOJA685M006#WJ                     | A            | 6.8                 | 6.3                     | 1.1                 | 6               | 2.6                        | 1   | 0.186                  | 0.167 | 0.074 | 0.484                  | 0.435 | 0.193 |
| NOJA106M006#WJ                     | A            | 10                  | 6.3                     | 1.2                 | 6               | 2.2                        | 1   | 0.202                  | 0.182 | 0.081 | 0.445                  | 0.400 | 0.178 |
| NOJB156M006#WJ                     | B            | 15                  | 6.3                     | 1.8                 | 6               | 2                          | 1   | 0.226                  | 0.203 | 0.090 | 0.452                  | 0.406 | 0.181 |
| NOJA156M006#WJ                     | A            | 15                  | 6.3                     | 1.8                 | 8               | 2                          | 1   | 0.212                  | 0.191 | 0.085 | 0.424                  | 0.382 | 0.170 |
| NOJB226M006#WJ                     | B            | 22                  | 6.3                     | 2.6                 | 6               | 1.9                        | 1   | 0.232                  | 0.209 | 0.093 | 0.440                  | 0.396 | 0.176 |
| NOJA226M006#WJ                     | A            | 22                  | 6.3                     | 2.6                 | 8               | 1.8                        | 1   | 0.224                  | 0.201 | 0.089 | 0.402                  | 0.362 | 0.161 |
| NOJB336M006#WJ                     | B            | 33                  | 6.3                     | 4.0                 | 6               | 1.7                        | 1   | 0.245                  | 0.220 | 0.098 | 0.416                  | 0.375 | 0.167 |

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.

For typical weight and composition see page 123.

**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.**

## 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 | MSL | 100kHz RMS Current (A) |       |       | 100kHz RMS Voltage (V) |       |       |
|----------------------------------|--------------|---------------------|-------------------------|---------------------|-----------------|----------------------------|-----|------------------------|-------|-------|------------------------|-------|-------|
|                                  |              |                     |                         |                     |                 |                            |     | 25°C                   | 85°C  | 105°C | 25°C                   | 85°C  | 105°C |
| 6.3 Volt @ 85°C (4 Volt @ 105°C) |              |                     |                         |                     |                 |                            |     |                        |       |       |                        |       |       |
| NOJB336M006#WB                   | B            | 33                  | 6.3                     | 4.0                 | 6               | 0.7                        | 1   | 0.382                  | 0.344 | 0.153 | 0.267                  | 0.240 | 0.170 |
| NOJC336M006#WJ                   | C            | 33                  | 6.3                     | 4.0                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJB476M006#WJ                   | B            | 47                  | 6.3                     | 5.6                 | 6               | 1.6                        | 1   | 0.252                  | 0.227 | 0.101 | 0.404                  | 0.364 | 0.162 |
| NOJC476M006#WJ                   | C            | 47                  | 6.3                     | 5.7                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJB686M006#WJ                   | B            | 68                  | 6.3                     | 8.2                 | 20              | 1.5                        | 1   | 0.261                  | 0.235 | 0.104 | 0.391                  | 0.352 | 0.156 |
| NOJC686M006#WJ                   | C            | 68                  | 6.3                     | 8.2                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJB107M006#WJ                   | B            | 100                 | 6.3                     | 60.0                | 20              | 1.7                        | 1   | 0.245                  | 0.220 | 0.098 | 0.416                  | 0.375 | 0.167 |
| NOJB107M006#WB                   | B            | 100                 | 6.3                     | 60.0                | 20              | 0.4                        | 1   | 0.505                  | 0.454 | 0.202 | 0.202                  | 0.182 | 0.081 |
| NOJC107M006#WJ                   | C            | 100                 | 6.3                     | 12.0                | 8               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJD107M006#WJ                   | D            | 100                 | 6.3                     | 12.0                | 6               | 0.4                        | 3   | 0.671                  | 0.604 | 0.268 | 0.268                  | 0.241 | 0.107 |
| NOJC157M006#WJ                   | C            | 150                 | 6.3                     | 18.0                | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJD157M006#WJ                   | D            | 150                 | 6.3                     | 18.0                | 6               | 0.4                        | 3   | 0.671                  | 0.604 | 0.268 | 0.268                  | 0.241 | 0.107 |
| NOJC227M006#WJ                   | C            | 220                 | 6.3                     | 26.4                | 14              | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJD227M006#WJ                   | D            | 220                 | 6.3                     | 26.4                | 8               | 0.4                        | 3   | 0.671                  | 0.604 | 0.268 | 0.268                  | 0.241 | 0.107 |
| NOJE227M006#WJ                   | E            | 220                 | 6.3                     | 26.4                | 12              | 0.4                        | 3   | 0.704                  | 0.633 | 0.281 | 0.281                  | 0.253 | 0.113 |
| NOJD337M006#WJ                   | D            | 330                 | 6.3                     | 39.6                | 10              | 0.3                        | 3   | 0.775                  | 0.697 | 0.310 | 0.232                  | 0.209 | 0.093 |
| NOJE337M006#WJ                   | E            | 330                 | 6.3                     | 39.6                | 12              | 0.3                        | 3   | 0.812                  | 0.731 | 0.325 | 0.244                  | 0.219 | 0.097 |
| NOJE477M006#WJ                   | E            | 470                 | 6.3                     | 56.4                | 16              | 0.3                        | 3   | 0.812                  | 0.731 | 0.325 | 0.244                  | 0.219 | 0.097 |
| NOJV477M006#WJ                   | V            | 470                 | 6.3                     | 56.4                | 12              | 0.3                        | 3   | 1.000                  | 0.900 | 0.400 | 0.300                  | 0.270 | 0.120 |
| 10 Volt @ 85°C (7 Volt @ 105°C)  |              |                     |                         |                     |                 |                            |     |                        |       |       |                        |       |       |
| NOJA475M010#WJ                   | A            | 4.7                 | 10                      | 1.0                 | 6               | 3.1                        | 1   | 0.170                  | 0.153 | 0.068 | 0.528                  | 0.475 | 0.211 |
| NOJA685M010#WJ                   | A            | 6.8                 | 10                      | 1.4                 | 6               | 2.6                        | 1   | 0.186                  | 0.167 | 0.074 | 0.484                  | 0.435 | 0.193 |
| NOJA106M010#WJ                   | A            | 10                  | 10                      | 2.0                 | 6               | 2.2                        | 1   | 0.202                  | 0.182 | 0.081 | 0.445                  | 0.400 | 0.178 |
| NOJB106M010#WJ                   | B            | 10                  | 10                      | 2.0                 | 6               | 2.2                        | 1   | 0.215                  | 0.194 | 0.086 | 0.474                  | 0.426 | 0.189 |
| NOJA156M010#WJ                   | A            | 15                  | 10                      | 3.0                 | 6               | 2                          | 1   | 0.212                  | 0.191 | 0.085 | 0.424                  | 0.382 | 0.170 |
| NOJB156M010#WJ                   | B            | 15                  | 10                      | 3.0                 | 6               | 2                          | 1   | 0.226                  | 0.203 | 0.090 | 0.452                  | 0.406 | 0.181 |
| NOJB226M010#WJ                   | B            | 22                  | 10                      | 4.4                 | 6               | 1.8                        | 1   | 0.238                  | 0.214 | 0.095 | 0.428                  | 0.386 | 0.171 |
| NOJB226M010#WB                   | B            | 22                  | 10                      | 4.4                 | 6               | 0.7                        | 1   | 0.382                  | 0.344 | 0.153 | 0.267                  | 0.240 | 0.107 |
| NOJC226M010#WJ                   | C            | 22                  | 10                      | 4.4                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJC336M010#WJ                   | C            | 33                  | 10                      | 6.6                 | 6               | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJC476M010#WJ                   | C            | 47                  | 10                      | 9.4                 | 6               | 0.4                        | 1   | 0.574                  | 0.517 | 0.230 | 0.230                  | 0.207 | 0.092 |
| NOJC686M010#WJ                   | C            | 68                  | 10                      | 13.6                | 12              | 0.5                        | 1   | 0.514                  | 0.462 | 0.206 | 0.257                  | 0.231 | 0.103 |
| NOJD107M010#WJ                   | D            | 100                 | 10                      | 20.0                | 12              | 0.4                        | 3   | 0.671                  | 0.604 | 0.268 | 0.268                  | 0.241 | 0.107 |
| NOJD107M010#WB                   | D            | 100                 | 10                      | 20.0                | 12              | 0.15                       | 3   | 1.095                  | 0.986 | 0.438 | 0.164                  | 0.148 | 0.066 |
| NOJV227M010#WJ                   | V            | 220                 | 10                      | 44.0                | 12              | 0.4                        | 3   | 0.866                  | 0.779 | 0.346 | 0.364                  | 0.312 | 0.139 |

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 low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 123.

**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.**

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А