

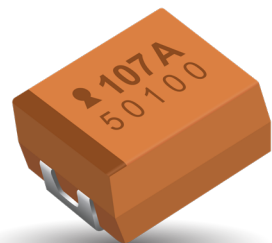


**THE DATASHEET OF
NOJA156M006RWJ**



OxiCap® NOJ Series

Standard and Low Profile Niobium Oxide Capacitors



FEATURES

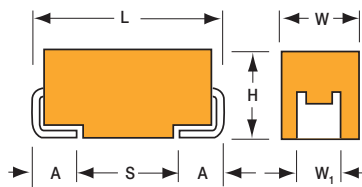
- Non-Burn Safe Technology
- Reliability Level: 0.5%/1000 Hours at 85°C
- 100% Surge Current Tested
- 5 Case Sizes Available, Standard and Low Profile
- Environmentally Friendly, RoHS Compliant
- CV Range: 4.7-470µF / 1.8-10V
- Elektra Component of the Year Award, 2005

APPLICATIONS

- Automotive, Avionics, Digital, FPGA, Industrial Low Voltage Control Circuits
- Downsized Industrial and Automotive DC/DC Converters



Elektra Award
2005



STANDARD CASE DIMENSIONS:

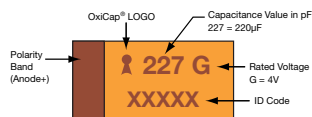
millimeters (inches)

| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H+0.20 (0.008) -0.10 (0.004) | W, ±0.20 (0.008) | A+0.30 (0.012) -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) |

W₁ dimension applies to the termination width for A dimensional area only.

MARKING

A, B, C, D, Y CASE



LOW PROFILE CASE DIMENSIONS:

millimeters (inches)

| Code | EIA Code | EIA Metric | L±0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H Max | W, ±0.20 (0.008) | A+0.30 (0.012) -0.20 (0.008) | S Min. |
|------|----------|------------|----------------|------------------------------|--------------|------------------|------------------------------|--------------|
| Y | 2917 | 7343-20 | 7.30 (0.287) | 4.30 (0.169) | 2.00 (0.079) | 2.40 (0.094) | 1.30 (0.051) | 4.40 (0.173) |

W₁ dimension applies to the termination width for A dimensional area only.

Pad Stand-off is 0.1±0.1.

HOW TO ORDER

| | | | | | | | |
|------------|------------------------------|--|-----------------------|---|--|---|---|
| NOJ | D | 107 | M | 006 | R | WJ | - |
| Type | Case Size See table above | Capacitance Code 1st two digits represent significant figures, 3rd digit represents multiplier in pF | Tolerance M = ±20% | Rated DC Voltage 001 = 1.8Vdc 002 = 2.5Vdc 004 = 4Vdc 006 = 6.3Vdc 010 = 10Vdc | Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel | Specification Suffix WJ = Standard WB = Low ESR | Additional characters may be added for special requirements V = dry pack option (selected ratings only) - dry pack is standard for all D & Y case size ratings) |

TECHNICAL SPECIFICATIONS

| | | | | | | | |
|------------------------------------|---|-----|-----|-----|-----|----|--|
| Technical Data: | All technical data relate to an ambient temperature of +25°C is not stated | | | | | | |
| Capacitance Range: | 4.7 µF to 470 µF | | | | | | |
| Capacitance Tolerance: | ±20% | | | | | | |
| Leakage Current DCL: | 0.02CV or 1.0µA whichever is the greater | | | | | | |
| Rated Voltage (V _R) | ≤ +85°C: | 1.8 | 2.5 | 4 | 6.3 | 10 | |
| Category Voltage (V _C) | ≤ +105°C: | 1.2 | 1.7 | 2.7 | 4 | 7 | |
| Surge Voltage (V _S) | ≤ +85°C: | 2.3 | 3.3 | 5.2 | 8 | 13 | |
| Surge Voltage (V _S) | ≤ +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 _R 0.1Ω/V series impedance, 60% confidence level Meets requirements of AEC-Q200 | | | | | | |

OxiCap® NOJ Series

Standard and Low Profile Niobium Oxide Capacitors



STANDARD NIOBIUM OXIDE CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated Voltage DC (V _R) to 85°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/B | A/B | A/B | B/C | C |
| 68 | 686 | B | B | B | B/C | C |
| 100 | 107 | B | B | B/C | B/C/D | D |
| 150 | 157 | | | | C/D | |
| 220 | 227 | | C | C/D | C/D | |
| 330 | 337 | | C | D | D | |
| 470 | 477 | | | D | | |

LOW PROFILE NIOBIUM OXIDE CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated Voltage DC (V _R) to 85°C | |
|-------------|------|--|----------|
| μF | Code | 4V (G) | 6.3V (J) |
| 100 | 107 | | Y |
| 150 | 157 | | Y |
| 220 | 227 | Y | |

Released ratings (ESR ratings in mOhms in parentheses)

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

OxiCap® NOJ Series

Standard and Low Profile Niobium Oxide Capacitors



RATINGS & PART NUMBER REFERENCE

| Part Number | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (A) | | | MSL |
|------------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|------------------------|-------|-------|-----|
| | | | | | | | | | | 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 | 0.237 | 0.213 | 0.095 | 1 |
| NOJB476M001#WJ | B | 47 | 1.8 | 85 | 1.2 | 105 | 1.7 | 6 | 1.6 | 0.252 | 0.227 | 0.101 | 1 |
| NOJB686M001#WJ | B | 68 | 1.8 | 85 | 1.2 | 105 | 2.5 | 6 | 1.5 | 0.261 | 0.235 | 0.104 | 1 |
| NOJB107M001#WJ | B | 100 | 1.8 | 85 | 1.2 | 105 | 3.6 | 6 | 1.4 | 0.270 | 0.243 | 0.108 | 1 |
| 2.5 Volt @ 85°C | | | | | | | | | | | | | |
| NOJA226M002#WJ | A | 22 | 2.5 | 85 | 1.7 | 105 | 1.1 | 6 | 1.9 | 0.218 | 0.196 | 0.087 | 1 |
| NOJA336M002#WJ | A | 33 | 2.5 | 85 | 1.7 | 105 | 1.7 | 6 | 1.7 | 0.230 | 0.207 | 0.092 | 1 |
| NOJB336M002#WJ | B | 33 | 2.5 | 85 | 1.7 | 105 | 1.7 | 6 | 1.7 | 0.245 | 0.220 | 0.098 | 1 |
| NOJA476M002#WJ | A | 47 | 2.5 | 85 | 1.7 | 105 | 2.4 | 8 | 1.6 | 0.237 | 0.213 | 0.095 | 1 |
| NOJB476M002#WJ | B | 47 | 2.5 | 85 | 1.7 | 105 | 2.4 | 6 | 1.6 | 0.252 | 0.227 | 0.101 | 1 |
| NOJB686M002#WJ | B | 68 | 2.5 | 85 | 1.7 | 105 | 3.4 | 6 | 1.5 | 0.261 | 0.235 | 0.104 | 1 |
| NOJB107M002#WJ | B | 100 | 2.5 | 85 | 1.7 | 105 | 5.0 | 6 | 1.4 | 0.270 | 0.243 | 0.108 | 1 |
| NOJC227M002#WJ | C | 220 | 2.5 | 85 | 1.7 | 105 | 11.0 | 8 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJC337M002#WJ | C | 330 | 2.5 | 85 | 1.7 | 105 | 16.5 | 10 | 0.3 | 0.663 | 0.597 | 0.265 | 1 |
| 4 Volt @ 85°C | | | | | | | | | | | | | |
| NOJA156M004#WJ | A | 15 | 4 | 85 | 2.7 | 105 | 1.2 | 6 | 2 | 0.212 | 0.191 | 0.085 | 1 |
| NOJA226M004#WJ | A | 22 | 4 | 85 | 2.7 | 105 | 1.8 | 6 | 1.9 | 0.218 | 0.196 | 0.087 | 1 |
| NOJB226M004#WJ | B | 22 | 4 | 85 | 2.7 | 105 | 1.8 | 6 | 1.9 | 0.232 | 0.209 | 0.093 | 1 |
| NOJA336M004#WJ | A | 33 | 4 | 85 | 2.7 | 105 | 2.6 | 10 | 1.7 | 0.230 | 0.207 | 0.092 | 1 |
| NOJB336M004#WJ | B | 33 | 4 | 85 | 2.7 | 105 | 2.6 | 6 | 1.7 | 0.245 | 0.220 | 0.098 | 1 |
| NOJA476M004#WJ | A | 47 | 4 | 85 | 2.7 | 105 | 3.8 | 18 | 2.2 | 0.202 | 0.182 | 0.081 | 1 |
| NOJB476M004#WJ | B | 47 | 4 | 85 | 2.7 | 105 | 3.8 | 6 | 1.6 | 0.252 | 0.227 | 0.101 | 1 |
| NOJB686M004#WJ | B | 68 | 4 | 85 | 2.7 | 105 | 5.4 | 6 | 1.5 | 0.261 | 0.235 | 0.104 | 1 |
| NOJB107M004#WJ | B | 100 | 4 | 85 | 2.7 | 105 | 8.0 | 16 | 1.4 | 0.270 | 0.243 | 0.108 | 1 |
| NOJC107M004#WJ | C | 100 | 4 | 85 | 2.7 | 105 | 8.0 | 6 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJC227M004#WJ | C | 220 | 4 | 85 | 2.7 | 105 | 17.6 | 8 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJD227M004#WJ | D | 220 | 4 | 85 | 2.7 | 105 | 17.6 | 8 | 0.4 | 0.671 | 0.604 | 0.268 | 3 |
| NOJY227M004#WJ | Y | 220 | 4 | 85 | 2.7 | 105 | 17.6 | 10 | 0.4 | 0.612 | 0.551 | 0.245 | 3 |
| NOJD337M004#WJ | D | 330 | 4 | 85 | 2.7 | 105 | 26.4 | 8 | 0.3 | 0.775 | 0.697 | 0.310 | 3 |
| NOJD477M004#WJ | D | 470 | 4 | 85 | 2.7 | 105 | 37.6 | 12 | 0.3 | 0.775 | 0.697 | 0.310 | 3 |
| 6.3 Volt @ 85°C | | | | | | | | | | | | | |
| NOJA475M006#WJ | A | 4.7 | 6.3 | 85 | 4 | 105 | 1.1 | 6 | 3.2 | 0.168 | 0.151 | 0.067 | 1 |
| NOJA685M006#WJ | A | 6.8 | 6.3 | 85 | 4 | 105 | 1.1 | 6 | 2.6 | 0.186 | 0.167 | 0.074 | 1 |
| NOJA106M006#WJ | A | 10 | 6.3 | 85 | 4 | 105 | 1.2 | 6 | 2.2 | 0.202 | 0.182 | 0.081 | 1 |
| NOJA156M006#WJ | A | 15 | 6.3 | 85 | 4 | 105 | 1.8 | 8 | 2 | 0.212 | 0.191 | 0.085 | 1 |
| NOJB156M006#WJ | B | 15 | 6.3 | 85 | 4 | 105 | 1.8 | 6 | 2 | 0.226 | 0.203 | 0.090 | 1 |
| NOJA226M006#WJ | A | 22 | 6.3 | 85 | 4 | 105 | 2.6 | 8 | 1.8 | 0.224 | 0.201 | 0.089 | 1 |
| NOJB226M006#WJ | B | 22 | 6.3 | 85 | 4 | 105 | 2.6 | 6 | 1.9 | 0.232 | 0.209 | 0.093 | 1 |
| NOJB336M006#WJ | B | 33 | 6.3 | 85 | 4 | 105 | 4.0 | 6 | 1.7 | 0.245 | 0.220 | 0.098 | 1 |
| NOJB336M006#WB | B | 33 | 6.3 | 85 | 4 | 105 | 4.0 | 6 | 0.7 | 0.382 | 0.344 | 0.153 | 3 |
| NOJC336M006#WJ | C | 33 | 6.3 | 85 | 4 | 105 | 4.0 | 6 | 0.5 | 0.514 | 0.462 | 0.206 | 1 |
| NOJB476M006#WJ | B | 47 | 6.3 | 85 | 4 | 105 | 5.6 | 6 | 0.8 | 0.357 | 0.321 | 0.143 | 1 |
| NOJC476M006#WJ | C | 47 | 6.3 | 85 | 4 | 105 | 5.7 | 6 | 0.5 | 0.514 | 0.462 | 0.206 | 1 |
| NOJB686M006#WJ | B | 68 | 6.3 | 85 | 4 | 105 | 8.2 | 20 | 1.5 | 0.261 | 0.235 | 0.104 | 1 |
| NOJC686M006#WJ | C | 68 | 6.3 | 85 | 4 | 105 | 8.2 | 6 | 0.5 | 0.514 | 0.462 | 0.206 | 1 |
| NOJB107M006#WJ | B | 100 | 6.3 | 85 | 4 | 105 | 60.0 | 20 | 1.7 | 0.245 | 0.220 | 0.098 | 1 |
| NOJC107M006#WJ | C | 100 | 6.3 | 85 | 4 | 105 | 12.0 | 8 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJD107M006#WJ | D | 100 | 6.3 | 85 | 4 | 105 | 12.0 | 6 | 0.4 | 0.671 | 0.604 | 0.268 | 3 |
| NOJY107M006#WJ | Y | 100 | 6.3 | 85 | 4 | 105 | 12.0 | 6 | 0.4 | 0.612 | 0.551 | 0.245 | 3 |
| NOJC157M006#WJ | C | 150 | 6.3 | 85 | 4 | 105 | 18.0 | 6 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJD157M006#WJ | D | 150 | 6.3 | 85 | 4 | 105 | 18.0 | 6 | 0.4 | 0.671 | 0.604 | 0.268 | 3 |
| NOJY157M006#WJ | Y | 150 | 6.3 | 85 | 4 | 105 | 18.0 | 6 | 0.4 | 0.612 | 0.551 | 0.245 | 3 |
| NOJC227M006#WJ | C | 220 | 6.3 | 85 | 4 | 105 | 26.4 | 14 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJD227M006#WJ | D | 220 | 6.3 | 85 | 4 | 105 | 26.4 | 8 | 0.4 | 0.671 | 0.604 | 0.268 | 3 |
| NOJD337M006#WJ | D | 330 | 6.3 | 85 | 4 | 105 | 39.6 | 10 | 0.3 | 0.775 | 0.697 | 0.310 | 3 |
| 10 Volt @ 85°C | | | | | | | | | | | | | |
| NOJA475M010#WJ | A | 4.7 | 10 | 85 | 7 | 105 | 1.0 | 6 | 3.1 | 0.170 | 0.153 | 0.068 | 1 |
| NOJA685M010#WJ | A | 6.8 | 10 | 85 | 7 | 105 | 1.4 | 6 | 2.6 | 0.186 | 0.167 | 0.074 | 1 |
| NOJA106M010#WJ | A | 10 | 10 | 85 | 7 | 105 | 2.0 | 6 | 2.2 | 0.202 | 0.182 | 0.081 | 1 |
| NOJB106M010#WJ | B | 10 | 10 | 85 | 7 | 105 | 2.0 | 6 | 1 | 0.319 | 0.287 | 0.128 | 1 |
| NOJA156M010#WJ | A | 15 | 10 | 85 | 7 | 105 | 3.0 | 6 | 2 | 0.212 | 0.191 | 0.085 | 1 |
| NOJB156M010#WJ | B | 15 | 10 | 85 | 7 | 105 | 3.0 | 6 | 2 | 0.226 | 0.203 | 0.090 | 1 |
| NOJB226M010#WJ | B | 22 | 10 | 85 | 7 | 105 | 4.4 | 6 | 1.8 | 0.238 | 0.214 | 0.095 | 1 |
| NOJB226M010#WB | B | 22 | 10 | 85 | 7 | 105 | 4.4 | 6 | 0.7 | 0.382 | 0.344 | 0.153 | 3 |

OxiCap® NOJ Series

Standard and Low Profile Niobium Oxide Capacitors



RATINGS & PART NUMBER REFERENCE

| Part Number | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (Ω) | 100kHz RMS Current (A) | | | MSL |
|----------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|------------------------|-------|-------|-----|
| | | | | | | | | | | 25°C | 85°C | 105°C | |
| NOJC226M010#WJ | C | 22 | 10 | 85 | 7 | 105 | 4.4 | 6 | 0.5 | 0.514 | 0.462 | 0.206 | 1 |
| NOJC336M010#WJ | C | 33 | 10 | 85 | 7 | 105 | 6.6 | 6 | 0.5 | 0.514 | 0.462 | 0.206 | 1 |
| NOJC476M010#WJ | C | 47 | 10 | 85 | 7 | 105 | 9.4 | 6 | 0.4 | 0.574 | 0.517 | 0.230 | 1 |
| NOJC686M010#WJ | C | 68 | 10 | 85 | 7 | 105 | 13.6 | 12 | 0.5 | 0.514 | 0.462 | 0.206 | 1 |
| NOJD107M010#WJ | D | 100 | 10 | 85 | 7 | 105 | 20.0 | 12 | 0.4 | 0.671 | 0.604 | 0.268 | 3 |

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, refer to the *Product Safety Information Datasheet* at the end of the Polymer, Tantalum and Niobium Oxide Capacitors catalog.

NOTE: KYOCERA AVX reserves the right to supply higher voltage ratings in the same case size, to the same reliability standards.

QUALIFICATION TABLE

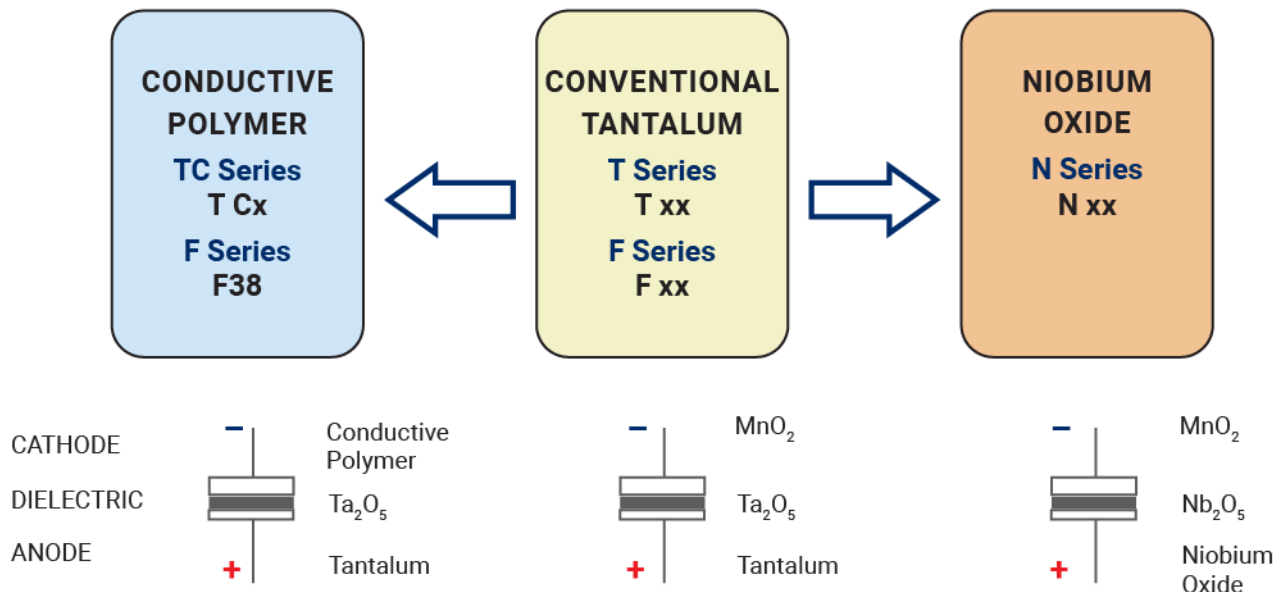
| TEST | NOJ series (Temperature range -55°C to +105°C) | | | | | | | | | |
|------------------------------|---|---------------|---------------|--------------------|------------------------------------|----------|-----------|-----------|-----------|-----------|
| | Condition | | | Characteristics | | | | | | |
| Endurance | Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 105°C for 2000 hours through a circuit impedance of $\leq 0.1\Omega/V$. Stabilize at room temperature for 1-2 hours before measuring. | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 10\%$ of initial value | | | | | |
| | | | | DF | initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |
| Storage Life | Store at 105°C, no voltage applied, for 2000 hours. Stabilize at room temperature for 1-2 hours before measuring. | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 10\%$ of initial value | | | | | |
| | | | | DF | initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |
| Humidity | Store at 65°C and 95% relative humidity for 500 hours, with no applied voltage. Stabilize at room temperature and humidity for 1-2 hours before measuring. | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | 1.5 x initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 10\%$ of initial value | | | | | |
| | | | | DF | 1.2 x initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |
| Biased Humidity | Apply rated voltage (Ur) at 85°C, 85°C relative humidity for 1000 hours. Stabilize at room temperature and humidity for 1-2 hours before measuring. | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | 2 x initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 10\%$ of initial value | | | | | |
| | | | | DF | 1.2 x initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |
| Temperature Stability | Step | Temperature°C | Duration(min) | | +20°C | -55°C | +20°C | +85°C | +105°C | +20°C |
| | 1 | +20 | 15 | DCL | IL* | n/a | IL* | 10x IL* | 12.5x IL* | IL* |
| | 2 | -55 | 15 | $\Delta C/C$ | n/a | +0/-10% | $\pm 5\%$ | +10/-0% | +12/-0% | $\pm 5\%$ |
| | 3 | +20 | 15 | DF | IL* | 1.5x IL* | IL* | 1.5x IL* | 2x IL* | IL* |
| | 4 | +85 | 15 | ESR | 1.25x IL* | 2.5x IL* | 1.25x IL* | 1.25x IL* | 1.25x IL* | 1.25x IL* |
| | 5 | +105 | 15 | | | | | | | |
| | 6 | +20 | 15 | | | | | | | |
| Surge Voltage | Apply 1.3x category voltage (Uc) at 105°C for 1000 cycles of duration 6 min (30 sec charge, 5 min 30 sec discharge) through a charge / discharge resistance of 1000 Ω | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 5\%$ of initial value | | | | | |
| | | | | DF | initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |
| Mechanical Shock | MIL-STD-202, Method 213, Condition F | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 5\%$ of initial value | | | | | |
| | | | | DF | initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |
| Vibration | MIL-STD-202, Method 204, Condition D | | | Visual examination | no visible damage | | | | | |
| | | | | DCL | initial limit | | | | | |
| | | | | $\Delta C/C$ | within $\pm 5\%$ of initial value | | | | | |
| | | | | DF | initial limit | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | |

*Initial Limit

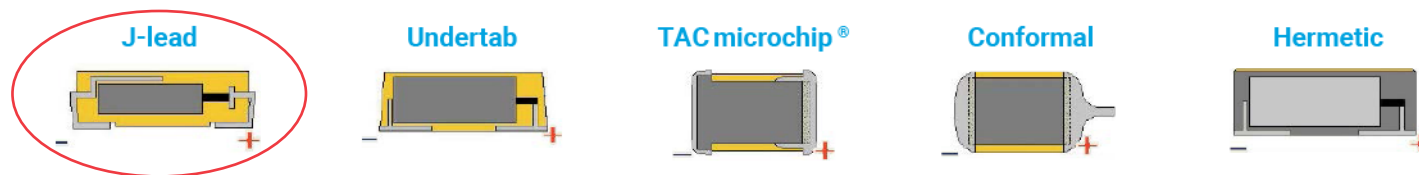
OxiCap® NOJ Series

Standard and Low Profile Niobium Oxide Capacitors

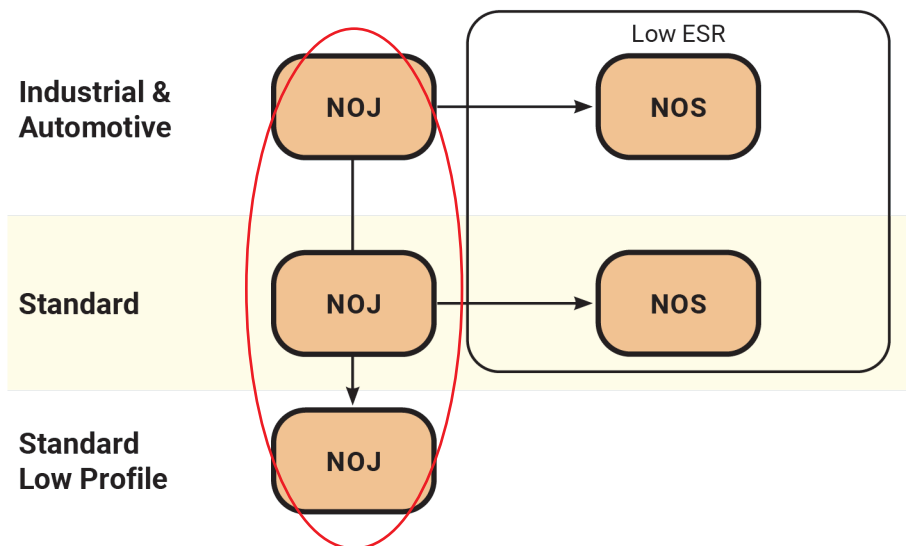
SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP :



Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View NOJA156M006RWJ on WIN SOURCE](#)
- ⊖ [AVX Corp/Kyocera Corp Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management