

TAJ Series

Standard Tantalum



- General purpose SMT chip tantalum series
- 6 case sizes available
- Low profile options available
- CV range: 0.10-2200 μ F / 2.5-50V



LEAD-FREE COMPATIBLE COMPONENT

CASE DIMENSIONS: millimeters (inches)



For part marking see page 132

| Code | EIA Code | EIA Metric | L \pm 0.20 (0.008) | W+0.20 (0.008) -0.10 (0.004) | H+0.20 (0.008) -0.10 (0.004) | W \pm 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) |
| 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 (0.136 \pm 0.012) | 3.10 (0.120) | 1.40 (0.055) | 4.40 (0.173) |

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

HOW TO ORDER

| | | | | | | | |
|-------------|-------------------------------------|---|--------------------------------------|--|--|---|---|
| TAJ | C | 106 | M | 035 | R | NJ | - |
| Type | Case Size See table above | Capacitance Code pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow) | Tolerance K=±10% M=±20% | Rated DC Voltage 002=2.5Vdc 004=4Vdc 006=6.3Vdc 010=10Vdc 016=16Vdc 020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc 063=63Vdc | Packaging R = 7" T/R (Lead Free since production date 1/1/04) S = 13" T/R (Lead Free since production date 1/1/04) A = Gold Plating 7" Reel B = Gold Plating 13" Reel H = Tin Lead 7" reel (Contact Manufacturer) K = Tin Lead 13" reel (Contact Manufacturer) H, K = Non RoHS | Specification Suffix NJ = Standard Suffix | Additional characters may be added for special requirements V = Dry pack Option (selected codes only) |

TECHNICAL SPECIFICATIONS

| | | | | | | | | | | | |
|------------------------------------|---|-----|-----|-----|----|----|----|----|----|----|----|
| Technical Data: | All technical data relate to an ambient temperature of +25°C | | | | | | | | | | |
| Capacitance Range: | 0.10 μ F to 2200 μ F | | | | | | | | | | |
| Capacitance Tolerance: | \pm 10%; \pm 20% | | | | | | | | | | |
| Rated Voltage (V _R) | \leq +85°C: | 2.5 | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 | 63 |
| Category Voltage (V _C) | \leq +125°C: | 1.7 | 2.7 | 4 | 7 | 10 | 13 | 17 | 23 | 33 | 42 |
| Surge Voltage (V _S) | \leq +85°C: | 3.3 | 5.2 | 8 | 13 | 20 | 26 | 32 | 46 | 65 | 82 |
| Surge Voltage (V _S) | \leq +125°C: | 2.2 | 3.4 | 5 | 8 | 13 | 16 | 20 | 28 | 40 | 50 |
| Temperature Range: | -55°C to +125°C | | | | | | | | | | |
| Reliability: | 1% per 1000 hours at 85°C, V _R with 0.1 Ω /V series impedance, 60% confidence level | | | | | | | | | | |
| Qualification: | CECC 30801 - 005 issue 2 EIA 535BAAC | | | | | | | | | | |
| Termination Finished: | Sn Plating (standard), Gold and SnPb Plating upon request Meets requirements of AEC-Q200 | | | | | | | | | | |



TAJ Series



Standard Tantalum

CAPACITANCE AND RATED VOLTAGE, VR (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated voltage DC (V _R) to 85°C | | | | | | | | | |
|----------------------|-------------------|---|---------------------------------------|---|---|---|--|---|----------------------------------|-------------------------------------|--|
| µF | Code | 2.5V (e) | 4V (G) | 6.3V (J) | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) | 63V |
| 0.10 0.15 0.22 | 104 154 224 | | | | | | | | A A A | A A/B A/B | |
| 0.33 0.47 0.68 | 334 474 684 | | | | | | A | A A | A A/B A/B | B A/B/C A/B/C | |
| 1.0 1.5 2.2 | 105 155 225 | | | A | A A | A A A/B | A A A/B | A A/B A/B | A/B A/B/C A/B/C | A ^(M) /B/C C/D C/D | |
| 3.3 4.7 6.8 | 335 475 685 | | A A | A A A/B | A A/B A/B | A/B A/B A/B/C | A/B A/B/C A/B/C | A/B/C A/B/C B/C | B/C B/C/D C/D | C/D C/D C/D | |
| 10 15 22 | 106 156 226 | | A A/B A | A/B A/B A/B/C | A/B/C A/B/C A/B/C | A/B/C A ^(M) /B/C B/C/D | A ^(M) */B/C B/C/D B/C/D | B/C/D C/D C/D | C/D/E C/D D/E | D/E/V D/E/V V | E ^(M) * V ^(M) * |
| 33 47 68 | 336 476 686 | A A A | A/B A/B A/B/C | A/B/C A/B/C/D B/C/D | A/B/C/D B/C/D B/C/D | B/C/D C/D C/D | C/D C/D/E C ^(M) /D/E | D/E D/E E/V | D/E/V E/V V ^(M) | | |
| 100 150 220 | 107 157 227 | A/B B B/D | A/B/C B/C B ^(M) /C/D | B/C/D B ^(M) /C/D C/D/E | B ^(M) /C/D/E C/D/E C/D/E | C/D/E D/E/V E/V | D/E/V E/V | E ^(M) /V V ^(M) * | | | |
| 330 470 680 | 337 477 687 | D C/D C/D/E | C/D/E C/D/E D/E | C/D/E D/E/V E/V | D/E/V E/V | V | | | | | |
| 1000 1500 2200 | 108 158 228 | D ^(M) /E D/E/V ^(M) V ^(M) | D/E/V E/V ^(M) | E ^(M) /V ^(M) | | | | | | | |

Non preferred Ratings - not recommended for new designs, higher voltage or smaller case size substitution are offered.

Released codes ^(M tolerance only)

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.

TAJ Series



Standard Tantalum

RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Cap (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|
| 2.5 Volt @ 85°C (1.7 Volt @ 125°C) | | | | | | |
| TAJA336*002#NJ | A | 33 | 2.5 | 0.8 | 8 | 1.7 |
| TAJA476*002#NJ | A | 47 | 2.5 | 0.9 | 6 | 3 |
| TAJA686*002#NJ | A | 68 | 2.5 | 1.4 | 8 | 1.5 |
| TAJA107*002#NJ | A | 100 | 2.5 | 2.5 | 30 | 1.4 |
| TAJB107*002#NJ | B | 100 | 2.5 | 2.5 | 8 | 1.4 |
| TAJB157*002#NJ | B | 150 | 2.5 | 3 | 10 | 1.6 |
| TAJB227*002#NJ | B | 220 | 2.5 | 4.4 | 16 | 1.6 |
| TAJD227*002#NJ | D | 220 | 2.5 | 5.5 | 8 | 0.3 |
| TAJD337*002#NJ | D | 330 | 2.5 | 8.2 | 8 | 0.3 |
| TAJC477*002#NJ | C | 470 | 2.5 | 9.4 | 12 | 0.2 |
| TAJD477*002#NJ | D | 470 | 2.5 | 11.6 | 8 | 0.2 |
| TAJC687*002#NJ | C | 680 | 2.5 | 17.0 | 18 | 0.2 |
| TAJD687*002#NJ | D | 680 | 2.5 | 17 | 16 | 0.2 |
| TAJE687*002#NJ | E | 680 | 2.5 | 17 | 10 | 0.2 |
| TAJD108M002#NJ | D | 1000 | 2.5 | 25 | 20 | 0.2 |
| TAJE108*002#NJ | E | 1000 | 2.5 | 20 | 14 | 0.4 |
| TAJD158*002#NJ | D | 1500 | 2.5 | 37.5 | 60 | 0.2 |
| TAJE158*002#NJ | E | 1500 | 2.5 | 37 | 20 | 0.2 |
| TAJV158M002#NJ | V | 1500 | 2.5 | 30 | 20 | 0.2 |
| TAJV228M002#NJ | V | 2200 | 2.5 | 55 | 50 | 0.2 |
| 4 Volt @ 85°C (2.7 Volt @ 125°C) | | | | | | |
| TAJA336*004#NJ | A | 33 | 4 | 1.3 | 6 | 3 |
| TAJA476*004#NJ | A | 47 | 4 | 1.9 | 8 | 2.6 |
| TAJA686*004#NJ | A | 68 | 4 | 2.7 | 10 | 1.5 |
| TAJB686*004#NJ | B | 68 | 4 | 2.7 | 6 | 1.8 |
| TAJA107*004#NJ | A | 100 | 4 | 4 | 30 | 1.4 |
| TAJB107*004#NJ | B | 100 | 4 | 4 | 8 | 0.9 |
| TAJB157*004#NJ | B | 150 | 4 | 6 | 10 | 1.5 |
| TAJC157*004#NJ | C | 150 | 4 | 6 | 6 | 0.3 |
| TAJB227M004#NJ | B | 220 | 4 | 8.8 | 12 | 1.1 |
| TAJC227*004#NJ | C | 220 | 4 | 8.8 | 8 | 1.2 |
| TAJD227*004#NJ | D | 220 | 4 | 8.8 | 8 | 0.9 |
| TAJC337*004#NJ | C | 330 | 4 | 13.2 | 8 | 0.3 |
| TAJD337*004#NJ | D | 330 | 4 | 13.2 | 8 | 0.9 |
| TAJC477*004#NJ | C | 470 | 4 | 18.8 | 14 | 0.3 |
| TAJD477*004#NJ | D | 470 | 4 | 18.8 | 12 | 0.9 |
| TAJE477*004#NJ | E | 470 | 4 | 18.8 | 10 | 0.5 |
| TAJD687*004#NJ | D | 680 | 4 | 27.2 | 14 | 0.5 |
| TAJE687*004#NJ | E | 680 | 4 | 27.2 | 14 | 0.9 |
| TAJD108*004#NJ | D | 1000 | 4 | 40 | 60 | 0.2 |
| TAJE108*004#NJ | E | 1000 | 4 | 40 | 14 | 0.4 |
| TAJV108*004#NJ | V | 1000 | 4 | 40 | 16 | 0.2 |
| TAJE158*004#NJ | E | 1500 | 4 | 60 | 30 | 0.2 |
| TAJV158M004#NJ | V | 1500 | 4 | 60 | 30 | 0.2 |
| 6.3 Volt @ 85°C (4 Volt @ 125°C) | | | | | | |
| TAJA106*006#NJ | A | 10 | 6.3 | 0.6 | 6 | 4 |
| TAJA156*006#NJ | A | 15 | 6.3 | 0.9 | 6 | 3.5 |
| TAJA226*006#NJ | A | 22 | 6.3 | 1.4 | 6 | 3 |
| TAJA336*006#NJ | A | 33 | 6.3 | 2.1 | 8 | 2.2 |
| TAJA476*006#NJ | A | 47 | 6.3 | 2.8 | 10 | 1.6 |
| TAJB476*006#NJ | B | 47 | 6.3 | 3 | 6 | 2 |
| TAJC476*006#NJ | C | 47 | 6.3 | 3 | 6 | 1.6 |
| TAJB686*006#NJ | B | 68 | 6.3 | 4 | 8 | 0.9 |
| TAJC686*006#NJ | C | 68 | 6.3 | 4.3 | 6 | 1.5 |
| TAJB107*006#NJ | B | 100 | 6.3 | 6.3 | 10 | 1.7 |
| TAJC107*006#NJ | C | 100 | 6.3 | 6.3 | 6 | 0.9 |
| TAJB157M006#NJ | B | 150 | 6.3 | 9.5 | 10 | 1.2 |
| TAJC157*006#NJ | C | 150 | 6.3 | 9.5 | 6 | 1.3 |

| AVX Part No. | Case Size | Cap (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|
| TAJD157*006#NJ | D | 150 | 6.3 | 9.5 | 6 | 0.9 |
| TAJC227*006#NJ | C | 220 | 6.3 | 13.9 | 8 | 1.2 |
| TAJD227*006#NJ | D | 220 | 6.3 | 13.9 | 8 | 0.9 |
| TAJE227*006#NJ | E | 220 | 6.3 | 13.9 | 8 | 0.9 |
| TAJC337*006#NJ | C | 330 | 6.3 | 19.8 | 12 | 0.5 |
| TAJD337*006#NJ | D | 330 | 6.3 | 20.8 | 8 | 0.9 |
| TAJE337*006#NJ | E | 330 | 6.3 | 20.8 | 8 | 0.9 |
| TAJD477*006#NJ | D | 470 | 6.3 | 28 | 12 | 0.4 |
| TAJE477*006#NJ | E | 470 | 6.3 | 28 | 10 | 0.4 |
| TAJV477*006#NJ | V | 470 | 6.3 | 28 | 10 | 0.4 |
| TAJE687*006#NJ | E | 680 | 6.3 | 42.8 | 10 | 0.5 |
| TAJV687*006#NJ | V | 680 | 6.3 | 42.8 | 10 | 0.5 |
| TAJE108M006#NJ | E | 1000 | 6.3 | 60 | 20 | 0.2 |
| TAJV108M006#NJ | V | 1000 | 6.3 | 60 | 16 | 0.2 |
| 10 Volt @ 85°C (7 Volt @ 125°C) | | | | | | |
| TAJA475*010#NJ | A | 4.7 | 10 | 0.5 | 6 | 5 |
| TAJA685*010#NJ | A | 6.8 | 10 | 0.7 | 6 | 4 |
| TAJA106*010#NJ | A | 10 | 10 | 1 | 6 | 3 |
| TAJA156*010#NJ | A | 15 | 10 | 1.5 | 6 | 3.2 |
| TAJB156*010#NJ | B | 15 | 10 | 1.5 | 6 | 2.8 |
| TAJA226*010#NJ | A | 22 | 10 | 2.2 | 8 | 3 |
| TAJB226*010#NJ | B | 22 | 10 | 2.2 | 6 | 2.4 |
| TAJA336*010#NJ | A | 33 | 10 | 3.3 | 8 | 1.7 |
| TAJB336*010#NJ | B | 33 | 10 | 3.3 | 6 | 1.8 |
| TAJC336*010#NJ | C | 33 | 10 | 3.3 | 6 | 1.6 |
| TAJB476*010#NJ | B | 47 | 10 | 4.7 | 8 | 1 |
| TAJC476*010#NJ | C | 47 | 10 | 4.7 | 6 | 1.2 |
| TAJB686*010#NJ | B | 68 | 10 | 6.8 | 6 | 1.4 |
| TAJC686*010#NJ | C | 68 | 10 | 6.8 | 6 | 1.3 |
| TAJB107M010#NJ | B | 100 | 10 | 10 | 8 | 1.4 |
| TAJC107*010#NJ | C | 100 | 10 | 10 | 8 | 1.2 |
| TAJD107*010#NJ | D | 100 | 10 | 10 | 6 | 0.7 |
| TAJB157*010#NJ | B | 150 | 10 | 15 | 8 | 0.9 |
| TAJD157*010#NJ | D | 150 | 10 | 15 | 8 | 0.9 |
| TAJE157*010#NJ | E | 150 | 10 | 15 | 8 | 0.9 |
| TAJC227*010#NJ | C | 220 | 10 | 22 | 18 | 0.5 |
| TAJD227*010#NJ | D | 220 | 10 | 22 | 8 | 0.5 |
| TAJE227*010#NJ | E | 220 | 10 | 22 | 8 | 0.5 |
| TAJD337*010#NJ | D | 330 | 10 | 33 | 8 | 0.9 |
| TAJE337*010#NJ | E | 330 | 10 | 33 | 8 | 0.9 |
| TAJV337*010#NJ | V | 330 | 10 | 33 | 10 | 0.9 |
| TAJE477*010#NJ | E | 470 | 10 | 47 | 10 | 0.5 |
| TAJV477*010#NJ | V | 470 | 10 | 47 | 10 | 0.5 |
| 16 Volt @ 85°C (10 Volt @ 125°C) | | | | | | |
| TAJA225*016#NJ | A | 2.2 | 16 | 0.5 | 6 | 6.5 |
| TAJA335*016#NJ | A | 3.3 | 16 | 0.5 | 6 | 5 |
| TAJB335*016#NJ | B | 3.3 | 16 | 0.5 | 6 | 4.5 |
| TAJA475*016#NJ | A | 4.7 | 16 | 0.8 | 6 | 4 |
| TAJB475*016#NJ | B | 4.7 | 16 | 0.8 | 6 | 3.5 |
| TAJA685*016#NJ | A | 6.8 | 16 | 1.1 | 6 | 3.5 |
| TAJB685*016#NJ | B | 6.8 | 16 | 1.1 | 6 | 2.5 |
| TAJA106*016#NJ | A | 10 | 16 | 1.6 | 8 | 3 |
| TAJB106*016#NJ | B | 10 | 16 | 1.6 | 6 | 2.8 |
| TAJC106*016#NJ | C | 10 | 16 | 1.6 | 6 | 2 |
| TAJA156M016#NJ | A | 15 | 16 | 2.4 | 6 | 2 |
| TAJB156*016#NJ | B | 15 | 16 | 2.4 | 6 | 2.5 |
| TAJC156*016#NJ | C | 15 | 16 | 2.4 | 6 | 1.8 |
| TAJB226*016#NJ | B | 22 | 16 | 3.5 | 6 | 2.3 |
| TAJC226*016#NJ | C | 22 | 16 | 3.5 | 6 | 1 |

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.

TAJ series is MSL level 1 according to J-STD-020C.

* Insert K for ±10% and M for ±20% Capacitance Tolerance

Standard Plating – Insert R for 7" reel and S for 13" reel
 # **Gold Plating** – Insert A for 7" reel and B for 13" reel
 # **Tin Lead Plating** – Insert H for 7" reel and K for 13" reel

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.



RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Cap (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|
| TAJD226*016#NJ | D | 22 | 16 | 3.5 | 6 | 1.1 |
| TAJB336*016#NJ | B | 33 | 16 | 5.3 | 8 | 2.1 |
| TAJC336*016#NJ | C | 33 | 16 | 5.3 | 6 | 1.5 |
| TAJD336*016#NJ | D | 33 | 16 | 5.3 | 6 | 0.9 |
| TAJC476*016#NJ | C | 47 | 16 | 7.5 | 6 | 0.5 |
| TAJD476*016#NJ | D | 47 | 16 | 7.5 | 6 | 0.8 |
| TAJC686*016#NJ | C | 68 | 16 | 10.9 | 6 | 1.3 |
| TAJD686*016#NJ | D | 68 | 16 | 10.9 | 6 | 0.9 |
| TAJC107*016#NJ | C | 100 | 16 | 16 | 8 | 1 |
| TAJD107*016#NJ | D | 100 | 16 | 16 | 6 | 0.6 |
| TAJE107*016#NJ | E | 100 | 16 | 16 | 6 | 0.9 |
| TAJD157*016#NJ | D | 150 | 16 | 24 | 6 | 0.9 |
| TAJE157*016#NJ | E | 150 | 16 | 24 | 8 | 0.3 |
| TAJV157*016#NJ | V | 150 | 16 | 24 | 8 | 0.5 |
| TAJE227*016#NJ | E | 220 | 16 | 35.2 | 10 | 0.5 |
| TAJV227*016#NJ | V | 220 | 16 | 35.2 | 8 | 0.9 |
| TAJV337*016#NJ | V | 330 | 16 | 52.8 | 10 | 0.5 |
| 20 Volt @ 85°C (13 Volt @ 125°C) | | | | | | |
| TAJA105*020#NJ | A | 1 | 20 | 0.5 | 4 | 9 |
| TAJA155*020#NJ | A | 1.5 | 20 | 0.5 | 6 | 6.5 |
| TAJA225*020#NJ | A | 2.2 | 20 | 0.5 | 6 | 5.3 |
| TAJB225*020#NJ | B | 2.2 | 20 | 0.5 | 6 | 3.5 |
| TAJA335*020#NJ | A | 3.3 | 20 | 0.7 | 6 | 4.5 |
| TAJB335*020#NJ | B | 3.3 | 20 | 0.7 | 6 | 3 |
| TAJA475*020#NJ | A | 4.7 | 20 | 0.9 | 6 | 4 |
| TAJB475*020#NJ | B | 4.7 | 20 | 0.9 | 6 | 3 |
| TAJA685*020#NJ | A | 6.8 | 20 | 1.4 | 6 | 2.4 |
| TAJB685*020#NJ | B | 6.8 | 20 | 1.4 | 6 | 2.5 |
| TAJC685*020#NJ | C | 6.8 | 20 | 1.4 | 6 | 2 |
| TAJB106*020#NJ | B | 10 | 20 | 2 | 6 | 2.1 |
| TAJC106*020#NJ | C | 10 | 20 | 2 | 6 | 1.2 |
| TAJB156*020#NJ | B | 15 | 20 | 3 | 6 | 2 |
| TAJC156*020#NJ | C | 15 | 20 | 3 | 6 | 1.7 |
| TAJB226*020#NJ | B | 22 | 20 | 4.4 | 6 | 1.8 |
| TAJC226*020#NJ | C | 22 | 20 | 4.4 | 6 | 1.6 |
| TAJD226*020#NJ | D | 22 | 20 | 4.4 | 6 | 0.9 |
| TAJC336*020#NJ | C | 33 | 20 | 6.6 | 6 | 1.5 |
| TAJD336*020#NJ | D | 33 | 20 | 6.6 | 6 | 0.9 |
| TAJC476*020#NJ | C | 47 | 20 | 9.4 | 6 | 0.5 |
| TAJD476*020#NJ | D | 47 | 20 | 9.4 | 6 | 0.9 |
| TAJE476*020#NJ | E | 47 | 20 | 9.4 | 6 | 0.9 |
| TAJC686M020#NJ | C | 68 | 20 | 13.6 | 8 | 0.9 |
| TAJD686*020#NJ | D | 68 | 20 | 13.6 | 6 | 0.4 |
| TAJE686*020#NJ | E | 68 | 20 | 13.6 | 6 | 0.9 |
| TAJD107*020#NJ | D | 100 | 20 | 20 | 6 | 0.5 |
| TAJE107*020#NJ | E | 100 | 20 | 20 | 6 | 0.4 |
| TAJV107*020#NJ | V | 100 | 20 | 20 | 8 | 0.9 |
| TAJE157*020#NJ | E | 150 | 20 | 30 | 8 | 0.3 |
| TAJV157*020#NJ | V | 150 | 20 | 30 | 8 | 0.3 |
| 25 Volt @ 85°C (17 Volt @ 125°C) | | | | | | |
| TAJA474*025#NJ | A | 0.47 | 25 | 0.5 | 4 | 14 |
| TAJA684*025#NJ | A | 0.68 | 25 | 0.5 | 4 | 10 |
| TAJA105*025#NJ | A | 1 | 25 | 0.5 | 4 | 8 |
| TAJA155*025#NJ | A | 1.5 | 25 | 0.5 | 6 | 7.5 |
| TAJB155*025#NJ | B | 1.5 | 25 | 0.5 | 6 | 5 |
| TAJA225*025#NJ | A | 2.2 | 25 | 0.6 | 6 | 7 |
| TAJB225*025#NJ | B | 2.2 | 25 | 0.6 | 6 | 4.5 |
| TAJA335*025#NJ | A | 3.3 | 25 | 0.8 | 6 | 3.7 |

| AVX Part No. | Case Size | Cap (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|
| TAJB335*025#NJ | B | 3.3 | 25 | 0.8 | 6 | 3.5 |
| TAJA475*025#NJ | A | 4.7 | 25 | 1.2 | 6 | 3.1 |
| TAJB475*025#NJ | B | 4.7 | 25 | 1.2 | 6 | 1.5 |
| TAJB685*025#NJ | B | 6.8 | 25 | 1.7 | 6 | 2.8 |
| TAJC685*025#NJ | C | 6.8 | 25 | 1.7 | 6 | 2 |
| TAJB106*025#NJ | B | 10 | 25 | 2.5 | 6 | 2.5 |
| TAJC106*025#NJ | C | 10 | 25 | 2.5 | 6 | 1.8 |
| TAJD106*025#NJ | D | 10 | 25 | 2.5 | 6 | 1.2 |
| TAJC156*025#NJ | C | 15 | 25 | 3.8 | 6 | 1.6 |
| TAJD156*025#NJ | D | 15 | 25 | 3.8 | 6 | 1 |
| TAJC226*025#NJ | C | 22 | 25 | 5.5 | 6 | 1.4 |
| TAJD226*025#NJ | D | 22 | 25 | 5.5 | 6 | 0.9 |
| TAJD336*025#NJ | D | 33 | 25 | 8.3 | 6 | 0.9 |
| TAJE336*025#NJ | E | 33 | 25 | 8.3 | 6 | 0.9 |
| TAJD476*025#NJ | D | 47 | 25 | 11.8 | 6 | 0.9 |
| TAJB476*025#NJ | E | 47 | 25 | 11.8 | 6 | 0.9 |
| TAJE686*025#NJ | E | 68 | 25 | 17 | 6 | 0.9 |
| TAJV686*025#NJ | V | 68 | 25 | 17 | 6 | 0.9 |
| TAJE107M025#NJ | E | 100 | 25 | 25 | 10 | 0.3 |
| TAJV107*025#NJ | V | 100 | 25 | 25 | 8 | 0.4 |
| TAJV157M025#NJ | V | 150 | 25 | 37.5 | 10 | 0.4 |
| 35 Volt @ 85°C (23 Volt @ 125°C) | | | | | | |
| TAJA104*035#NJ | A | 0.1 | 35 | 0.5 | 4 | 24 |
| TAJA154*035#NJ | A | 0.15 | 35 | 0.5 | 4 | 21 |
| TAJA224*035#NJ | A | 0.22 | 35 | 0.5 | 4 | 18 |
| TAJA334*035#NJ | A | 0.33 | 35 | 0.5 | 4 | 15 |
| TAJA474*035#NJ | A | 0.47 | 35 | 0.5 | 4 | 12 |
| TAJB474*035#NJ | B | 0.47 | 35 | 0.5 | 4 | 10 |
| TAJA684*035#NJ | A | 0.68 | 35 | 0.5 | 4 | 8 |
| TAJB684*035#NJ | B | 0.68 | 35 | 0.5 | 4 | 8 |
| TAJA105*035#NJ | A | 1 | 35 | 0.5 | 4 | 7.5 |
| TAJB105*035#NJ | B | 1 | 35 | 0.5 | 4 | 6.5 |
| TAJA155*035#NJ | A | 1.5 | 35 | 0.5 | 6 | 7.5 |
| TAJB155*035#NJ | B | 1.5 | 35 | 0.5 | 6 | 5.2 |
| TAJC155*035#NJ | C | 1.5 | 35 | 0.5 | 6 | 4.5 |
| TAJA225*035#NJ | A | 2.2 | 35 | 0.8 | 6 | 4.5 |
| TAJB225*035#NJ | B | 2.2 | 35 | 0.8 | 6 | 4.2 |
| TAJC225*035#NJ | C | 2.2 | 35 | 0.8 | 6 | 3.5 |
| TAJB335*035#NJ | B | 3.3 | 35 | 1.2 | 6 | 3.5 |
| TAJC335*035#NJ | C | 3.3 | 35 | 1.2 | 6 | 2.5 |
| TAJB475*035#NJ | B | 4.7 | 35 | 1.6 | 6 | 3.1 |
| TAJC475*035#NJ | C | 4.7 | 35 | 1.6 | 6 | 2.2 |
| TAJD475*035#NJ | D | 4.7 | 35 | 1.6 | 6 | 1.5 |
| TAJC685*035#NJ | C | 6.8 | 35 | 2.4 | 6 | 1.8 |
| TAJD685*035#NJ | D | 6.8 | 35 | 2.4 | 6 | 1.3 |
| TAJC106*035#NJ | C | 10 | 35 | 3.5 | 6 | 1.6 |
| TAJD106*035#NJ | D | 10 | 35 | 3.5 | 6 | 1 |
| TAJE106*035#NJ | E | 10 | 35 | 3.5 | 6 | 0.9 |
| TAJC156*035#NJ | C | 15 | 35 | 5.3 | 6 | 1.4 |
| TAJD156*035#NJ | D | 15 | 35 | 5.3 | 6 | 0.9 |
| TAJD226*035#NJ | D | 22 | 35 | 7.7 | 6 | 0.9 |
| TAJE226*035#NJ | E | 22 | 35 | 7.7 | 6 | 0.5 |
| TAJD336*035#NJ | D | 33 | 35 | 11.6 | 6 | 0.9 |
| TAJE336*035#NJ | E | 33 | 35 | 11.6 | 6 | 0.5 |
| TAJV336*035#NJ | V | 33 | 35 | 11.6 | 6 | 0.5 |
| TAJE476*035#NJ | E | 47 | 35 | 16.5 | 6 | 0.9 |
| TAJV476*035#NJ | V | 47 | 35 | 16.5 | 6 | 0.4 |
| TAJV686M035#NJ | V | 68 | 35 | 23.8 | 6 | 0.5 |

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.

TAJ series is MSL level 1 according to J-STD-020C.

* Insert K for ±10% and M for ±20% Capacitance Tolerance

Standard Plating – Insert R for 7" reel and S for 13" reel
 # **Gold Plating** – Insert A for 7" reel and B for 13" reel
 # **Tin Lead Plating** – Insert H for 7" reel and K for 13" reel

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.

TAJ Series



Standard Tantalum

RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Cap (μF) | Rated Voltage (V) | DCL (μA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|---|-----------|----------|-------------------|---------------|-----------|----------------------|
| 50 Volt @ 85°C (33 Volt @ 125°C) | | | | | | |
| TAJA104*050#NJ | A | 0.1 | 50 | 0.5 | 4 | 22 |
| TAJA154*050#NJ | A | 0.15 | 50 | 0.5 | 4 | 15 |
| TAJB154*050#NJ | B | 0.15 | 50 | 0.5 | 4 | 17 |
| TAJA224*050#NJ | A | 0.22 | 50 | 0.5 | 4 | 18 |
| TAJB224*050#NJ | B | 0.22 | 50 | 0.5 | 4 | 14 |
| TAJB334*050#NJ | B | 0.33 | 50 | 0.5 | 4 | 12 |
| TAJA474*050#NJ | A | 0.47 | 50 | 0.5 | 4 | 9.5 |
| TAJB474*050#NJ | B | 0.47 | 50 | 0.7 | 4 | 9.5 |
| TAJC474*050#NJ | C | 0.47 | 50 | 0.5 | 4 | 8 |
| TAJA684*050#NJ | A | 0.68 | 50 | 0.5 | 4 | 7.9 |
| TAJB684*050#NJ | B | 0.68 | 50 | 0.5 | 4 | 8 |
| TAJC684*050#NJ | C | 0.68 | 50 | 0.5 | 4 | 7 |
| TAJA105M050#NJ | A | 1 | 50 | 0.5 | 4 | 6.6 |
| TAJB105*050#NJ | B | 1 | 50 | 0.5 | 6 | 7 |
| TAJC105*050#NJ | C | 1 | 50 | 0.5 | 4 | 5.5 |
| TAJC155*050#NJ | C | 1.5 | 50 | 0.8 | 6 | 4.5 |
| TAJD155*050#NJ | D | 1.5 | 50 | 0.8 | 6 | 4 |
| TAJC225*050#NJ | C | 2.2 | 50 | 1.1 | 6 | 3 |
| TAJD225*050#NJ | D | 2.2 | 50 | 1.1 | 6 | 2.5 |
| TAJC335*050#NJ | C | 3.3 | 50 | 1.7 | 6 | 2.5 |
| TAJD335*050#NJ | D | 3.3 | 50 | 1.7 | 6 | 2 |
| TAJC475*050#NJ | C | 4.7 | 50 | 0.5 | 4 | 1.4 |
| TAJD475*050#NJ | D | 4.7 | 50 | 2.4 | 6 | 1.4 |
| TAJC685*050#NJ | C | 6.8 | 50 | 3.4 | 6 | 1 |
| TAJD685*050#NJ | D | 6.8 | 50 | 3.4 | 6 | 1 |
| TAJD106*050#NJ | D | 10 | 50 | 5 | 6 | 0.8 |
| TAJE106*050#NJ | E | 10 | 50 | 5 | 6 | 1 |
| TAJV106*050#NJ | V | 10 | 50 | 5 | 6 | 0.65 |
| TAJD156*050#NJ | D | 15 | 50 | 7.5 | 6 | 0.6 |
| TAJE156*050#NJ | E | 15 | 50 | 7.5 | 6 | 0.6 |
| TAJV156*050#NJ | V | 15 | 50 | 7.5 | 6 | 0.6 |
| TAJV226*050#NJ | V | 22 | 50 | 11 | 8 | 0.6 |

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.

TAJ series is MSL level 1 according to J-STD-020C.

- * Insert K for ±10% and M for ±20% Capacitance Tolerance
- # **Standard Plating** – Insert R for 7" reel and S for 13" reel
- # **Gold Plating** – Insert A for 7" reel and B for 13" reel
- # **Tin Lead Plating** – Insert H for 7" reel and K for 13" reel

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