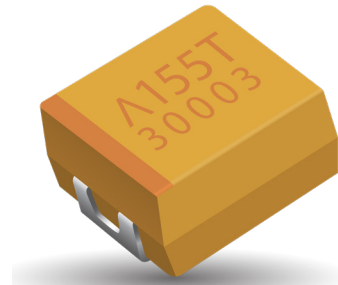


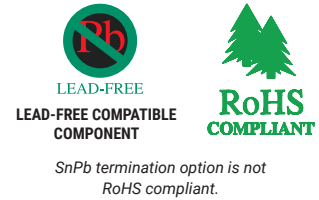
TRJ Series

Professional Tantalum Chip Capacitor



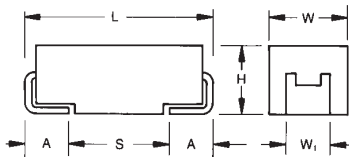
FEATURES

- Improved reliability – 2x standard
- DCL reduced by 25% to 0.0075 CV
- Robust against higher thermo-mechanical stresses during assembly process
- CV range: 0.10-680µF / 4-50V
- 6 case sizes available
- 130 low ESR parts released
- Automotive, industrial and other higher end applications



APPLICATIONS

- Automotive ECU
- ABS
- Airbag systems
- Avionics
- Industrial control units



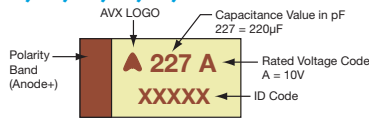
CASE DIMENSIONS: millimeters (inches)

| 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 ₁ ±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) |
| U | 2924 | 7361-43 | 7.30 (0.287) | 6.10 (0.240) | 4.10 (0.162) | 3.10 (0.122) | 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, E, U CASE



HOW TO ORDER

| TRJ | B | 105 | * | 035 | R | RJ | - |
|-------------|-------------------------------------|---|--|---|--|---|---|
| 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 004 = 4V 006 = 6.3V 010 = 10V 016 = 16V 020 = 20V 025 = 25V 035 = 35V 050 = 50V | Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel (Contact Manufacturer) B = Gold Plating 13" Reel (Contact Manufacturer) H = Tin Lead 7" Reel (Contact Manufacturer) K = Tin Lead 13" Reel (Contact Manufacturer) H, K = Non RoHS | Standard Suffix OR 0100 Low ESR in mΩ | 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 µF to 680 µF | | | | | | | | |
| Capacitance Tolerance: | ±10%; ±20% | | | | | | | | |
| Leakage Current DCL: | 0.0075CV or 0.3µA whichever is the greater | | | | | | | | |
| Rated Voltage (V _R) | ≤ +85°C: | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
| Category Voltage (V _C) | ≤ +125°C: | 2.7 | 4 | 7 | 10 | 13 | 17 | 23 | 33 |
| Surge Voltage (V _S) | ≤ +85°C: | 5.2 | 8 | 13 | 20 | 26 | 32 | 46 | 65 |
| Surge Voltage (V _S) | ≤ +125°C: | 3.4 | 5 | 8 | 13 | 16 | 20 | 28 | 40 |
| Temperature Range: | -55°C to +125°C | | | | | | | | |
| Reliability: | 0.5% per 1000 hours at 85°C, V _R with 0.1Ω/V series impedance, 60% confidence level | | | | | | | | |
| Termination Plating: | Sn Plating (standard), Gold and SnPb Plating upon request | | | | | | | | |
| | Meets requirements of AEC-Q200 | | | | | | | | |



The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.

**CAPACITANCE AND RATED VOLTAGE RANGE
(LETTER DENOTES CASE SIZE)**

| Capacitance | | Rated Voltage DC (V_R) to 85°C | | | | | | | |
|-------------|------|------------------------------------|----------------------------|---------------------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| μ F | Code | 4V (G) | 6.3V (J) | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 0.10 | 104 | | | | | | | A | |
| 0.15 | 154 | | | | | | | A, A(6000) | |
| 0.22 | 224 | | | | | | | A, A(6000) | A, A(7000) |
| 0.33 | 334 | | | | | | | A, A(6000) | A |
| 0.47 | 474 | | | | | | A, A(7000) | A, A(4000) | B |
| 0.68 | 684 | | | | | | A, A(6000) | A, A(6000) | B, B(2000) |
| 1.0 | 105 | | | | A | A, A(3000) | A, A(3000) | A, B, A(3000), B(2000) | C, B, B(2000) |
| 1.5 | 155 | | | A | | A, A(3000) | A, B, A(3000) | A, B, A(2000), B(2500) | C, C(1500) |
| 2.2 | 225 | | | A | A, A(3500) | A, A(3000) | A, B, A(1600), B(1200) | B, B(2000) | C, D, C(1000), D(1200) |
| 3.3 | 335 | | | | A, B, A(3500) | A, B, A(2500), B(1300) | B, B(2000) | B, C, D, B(1000), C(800) | C, D, C(1000), D(800) |
| 4.7 | 475 | | | A, A(2000) | A, B, A(2000), B(1500) | A, B, A(1800), B(1000) | B, B(1000) | B, C, D, B(1500), C(600) | D, D(600) |
| 6.8 | 685 | | | A, B, A(1800) | A, B, C, A(1500), B(1200) | B, C, B(1000) | B, C, B(1000), C(600) | C, D, C(600) | D |
| 10 | 106 | | A, B, A(1500) | A, B, A(1800), B(800) | B, C, B(800) | B, C, B(1000), C(500) | C, D, C(600) | C, D, C(600), D(250,400) | E, E(300,400) |
| 15 | 156 | B | A, B, A(1500), B(700) | A, B, C, A(1000), B(600) | B, B(800) | B, C, D, B(500), C(400) | C, D, C(500), D(300) | D, D(225) | U |
| 22 | 226 | | A, B, C, A(900), B(600) | B, B(700) | B, C, D, B(600), C(350) | C, D, C(400), D(150,300) | D, D(300) | D, D(200,400) | U |
| 33 | 336 | C | B, C, B(600) | B, C, D, B(650), C(300) | C, C(300) | C, D, C(300), D(250) | D, D(400) | E, E(150,250) | |
| 47 | 476 | | B, C, B(500), C(250) | C, D, C(300) | C, D, C(350), D(200) | D, D(200) | D, E, D(250), E(150) | U, U(200) | |
| 68 | 686 | | C, C(200) | C, C(300) | C, D C(200), D(150) | D, E, D(200), E(120,200) | U | | |
| 100 | 107 | | C, C(300) | C, D, E, C(200) D(100,150), E(100) | D, E, D(150), E(150) | E, E(150) | U | | |
| 150 | 157 | | C, D, C(300), D(150) | D, E, D(150), E(150) | E, E(150) | U, U(250) | | | |
| 220 | 227 | | D, D(150) | D, E, E(150) | U, U(200) | | | | |
| 330 | 337 | | D, E, E(150) | E, E(100) | U, U(200) | | | | |
| 470 | 477 | | E, E(200) | U, U(200) | | | | | |
| 680 | 687 | | U, U(250) | | | | | | |

Note for designers – for the highlighted ratings, higher voltage options are now available in the same case size and are recommended for new designs.

Released ratings, (ESR ratings in mOhms in parentheses)

Note: Voltage ratings are minimum values. AVX reserves the right to supply

higher voltage ratings in the same case size, to the same reliability standards.

TRJ Series

Professional Tantalum Chip Capacitor



RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (mΩ) | 100kHz RMS Current (mA) | | | MSL |
|------------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|------------------------|-------------------------|------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | |
| 4 Volt @ 85°C | | | | | | | | | | | | | |
| TRJB156*004#RJ | B | 15 | 4 | 85 | 2.7 | 125 | 0.45 | 6 | 3000 | 168 | 151 | 67 | 1 |
| TRJC336*004#RJ | C | 33 | 4 | 85 | 2.7 | 125 | 1 | 6 | 2000 | 235 | 211 | 94 | 1 |
| 6.3 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA106*006#RJ | A | 10 | 6.3 | 85 | 4 | 125 | 0.45 | 6 | 2200 | 185 | 166 | 74 | 1 |
| TRJA106*006#1500 | A | 10 | 6.3 | 85 | 4 | 125 | 0.45 | 6 | 1500 | 224 | 201 | 89 | 1 |
| TRJB106*006#RJ | B | 10 | 6.3 | 85 | 4 | 125 | 0.45 | 6 | 3000 | 168 | 151 | 67 | 1 |
| TRJA156*006#RJ | A | 15 | 6.3 | 85 | 4 | 125 | 0.68 | 6 | 2030 | 192 | 173 | 77 | 1 |
| TRJA156*006#1500 | A | 15 | 6.3 | 85 | 4 | 125 | 0.68 | 6 | 1500 | 224 | 201 | 89 | 1 |
| TRJB156*006#RJ | B | 15 | 6.3 | 85 | 4 | 125 | 0.68 | 6 | 2030 | 205 | 184 | 82 | 1 |
| TRJB156*006#0700 | B | 15 | 6.3 | 85 | 4 | 125 | 0.68 | 6 | 700 | 348 | 314 | 139 | 1 |
| TRJA226*006#RJ | A | 22 | 6.3 | 85 | 4 | 125 | 0.99 | 6 | 1700 | 210 | 189 | 84 | 1 |
| TRJA226*006#0900 | A | 22 | 6.3 | 85 | 4 | 125 | 0.99 | 6 | 900 | 289 | 260 | 115 | 1 |
| TRJB226*006#RJ | B | 22 | 6.3 | 85 | 4 | 125 | 0.99 | 6 | 1880 | 213 | 191 | 85 | 1 |
| TRJB226*006#0600 | B | 22 | 6.3 | 85 | 4 | 125 | 0.99 | 6 | 600 | 376 | 339 | 151 | 1 |
| TRJC226*006#RJ | C | 22 | 6.3 | 85 | 4 | 125 | 0.99 | 6 | 2000 | 235 | 211 | 94 | 1 |
| TRJB336*006#RJ | B | 33 | 6.3 | 85 | 4 | 125 | 1.5 | 6 | 1740 | 221 | 199 | 88 | 1 |
| TRJB336*006#0600 | B | 33 | 6.3 | 85 | 4 | 125 | 1.5 | 6 | 600 | 376 | 339 | 151 | 1 |
| TRJC336*006#RJ | C | 33 | 6.3 | 85 | 4 | 125 | 1.5 | 6 | 1800 | 247 | 222 | 99 | 1 |
| TRJB476*006#RJ | B | 47 | 6.3 | 85 | 4 | 125 | 2.1 | 6 | 1620 | 229 | 206 | 92 | 1 |
| TRJB476*006#0500 | B | 47 | 6.3 | 85 | 4 | 125 | 2.1 | 6 | 500 | 412 | 371 | 165 | 1 |
| TRJC476*006#RJ | C | 47 | 6.3 | 85 | 4 | 125 | 2.1 | 6 | 540 | 451 | 406 | 181 | 1 |
| TRJC476*006#0250 | C | 47 | 6.3 | 85 | 4 | 125 | 2.1 | 6 | 250 | 663 | 597 | 265 | 1 |
| TRJC686*006#RJ | C | 68 | 6.3 | 85 | 4 | 125 | 3.1 | 6 | 490 | 474 | 426 | 190 | 1 |
| TRJC686*006#0200 | C | 68 | 6.3 | 85 | 4 | 125 | 3.1 | 6 | 200 | 742 | 667 | 297 | 1 |
| TRJC107*006#RJ | C | 100 | 6.3 | 85 | 4 | 125 | 4.5 | 6 | 440 | 500 | 450 | 200 | 1 |
| TRJC107*006#0300 | C | 100 | 6.3 | 85 | 4 | 125 | 4.5 | 6 | 300 | 606 | 545 | 242 | 1 |
| TRJC157*006#RJ | C | 150 | 6.3 | 85 | 4 | 125 | 6.8 | 8 | 500 | 469 | 422 | 188 | 1 |
| TRJC157*006#0300 | C | 150 | 6.3 | 85 | 4 | 125 | 6.8 | 8 | 300 | 606 | 545 | 242 | 1 |
| TRJD157*006#RJ | D | 150 | 6.3 | 85 | 4 | 125 | 6.8 | 6 | 400 | 612 | 551 | 245 | 1 |
| TRJD157*006#0150 | D | 150 | 6.3 | 85 | 4 | 125 | 6.8 | 6 | 150 | 1000 | 900 | 400 | 1 |
| TRJD227*006#RJ | D | 220 | 6.3 | 85 | 4 | 125 | 9.9 | 8 | 360 | 645 | 581 | 258 | 1 |
| TRJD227*006#0150 | D | 220 | 6.3 | 85 | 4 | 125 | 9.9 | 8 | 150 | 1000 | 900 | 400 | 1 |
| TRJD337*006#RJ | D | 330 | 6.3 | 85 | 4 | 125 | 14 | 8 | 400 | 612 | 551 | 245 | 1 |
| TRJE337*006#RJ | E | 330 | 6.3 | 85 | 4 | 125 | 14 | 8 | 330 | 707 | 636 | 283 | 1 ¹⁾ |
| TRJE337*006#0150 | E | 330 | 6.3 | 85 | 4 | 125 | 14 | 8 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJE477*006#RJ | E | 470 | 6.3 | 85 | 4 | 125 | 21 | 8 | 250 | 812 | 731 | 325 | 1 ¹⁾ |
| TRJE477*006#0200 | E | 470 | 6.3 | 85 | 4 | 125 | 21 | 8 | 200 | 908 | 817 | 363 | 1 ¹⁾ |
| TRJU687*006RRJV | U | 680 | 6.3 | 85 | 4 | 125 | 30 | 30 | 500 | 574 | 517 | 230 | 3 |
| TRJU687*006R0250V | U | 680 | 6.3 | 85 | 4 | 125 | 30 | 30 | 250 | 812 | 731 | 325 | 3 |
| 10 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA155*010#RJ | A | 1.5 | 10 | 85 | 7 | 125 | 0.3 | 6 | 7000 | 104 | 93 | 41 | 1 |
| TRJA225*010#RJ | A | 2.2 | 10 | 85 | 7 | 125 | 0.3 | 6 | 7000 | 104 | 93 | 41 | 1 |
| TRJA475*010#RJ | A | 4.7 | 10 | 85 | 7 | 125 | 0.35 | 6 | 2900 | 161 | 145 | 64 | 1 |
| TRJA475*010#2000 | A | 4.7 | 10 | 85 | 7 | 125 | 0.35 | 6 | 2000 | 194 | 174 | 77 | 1 |
| TRJA685*010#RJ | A | 6.8 | 10 | 85 | 7 | 125 | 0.51 | 6 | 2650 | 168 | 151 | 67 | 1 |
| TRJA685*010#1800 | A | 6.8 | 10 | 85 | 7 | 125 | 0.51 | 6 | 1800 | 204 | 184 | 82 | 1 |
| TRJB685*010#RJ | B | 6.8 | 10 | 85 | 7 | 125 | 0.51 | 6 | 3000 | 168 | 151 | 67 | 1 |
| TRJA106*010#RJ | A | 10 | 10 | 85 | 7 | 125 | 0.75 | 6 | 2200 | 185 | 166 | 74 | 1 |
| TRJA106*010#1800 | A | 10 | 10 | 85 | 7 | 125 | 0.75 | 6 | 1800 | 204 | 184 | 82 | 1 |
| TRJB106*010#RJ | B | 10 | 10 | 85 | 7 | 125 | 0.75 | 6 | 2200 | 197 | 177 | 79 | 1 |
| TRJB106*010#0800 | B | 10 | 10 | 85 | 7 | 125 | 0.75 | 6 | 800 | 326 | 293 | 130 | 1 |
| TRJA156*010#RJ | A | 15 | 10 | 85 | 7 | 125 | 1.1 | 6 | 1800 | 204 | 184 | 82 | 1 |
| TRJA156*010#1000 | A | 15 | 10 | 85 | 7 | 125 | 1.1 | 6 | 1000 | 274 | 246 | 110 | 1 |
| TRJB156*010#RJ | B | 15 | 10 | 85 | 7 | 125 | 1.1 | 6 | 2030 | 205 | 184 | 82 | 1 |
| TRJB156*010#0600 | B | 15 | 10 | 85 | 7 | 125 | 1.1 | 6 | 600 | 376 | 339 | 151 | 1 |
| TRJC156*010#RJ | C | 15 | 10 | 85 | 7 | 125 | 1.1 | 6 | 2000 | 235 | 211 | 94 | 1 |
| TRJB226*010#RJ | B | 22 | 10 | 85 | 7 | 125 | 1.7 | 6 | 1880 | 213 | 191 | 85 | 1 |
| TRJB226*010#0700 | B | 22 | 10 | 85 | 7 | 125 | 1.7 | 6 | 700 | 348 | 314 | 139 | 1 |
| TRJB336*010#RJ | B | 33 | 10 | 85 | 7 | 125 | 2.5 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJB336*010#0650 | B | 33 | 10 | 85 | 7 | 125 | 2.5 | 6 | 650 | 362 | 325 | 145 | 1 |
| TRJC336*010#RJ | C | 33 | 10 | 85 | 7 | 125 | 2.5 | 6 | 590 | 432 | 389 | 173 | 1 |
| TRJC336*010#0300 | C | 33 | 10 | 85 | 7 | 125 | 2.5 | 6 | 300 | 606 | 545 | 242 | 1 |
| TRJD336*010#RJ | D | 33 | 10 | 85 | 7 | 125 | 2.5 | 6 | 1100 | 369 | 332 | 148 | 1 |
| TRJC476*010#RJ | C | 47 | 10 | 85 | 7 | 125 | 3.5 | 6 | 540 | 451 | 406 | 181 | 1 |
| TRJC476*010#0300 | C | 47 | 10 | 85 | 7 | 125 | 3.5 | 6 | 300 | 606 | 545 | 242 | 1 |
| TRJD476*010#RJ | D | 47 | 10 | 85 | 7 | 125 | 3.5 | 6 | 400 | 612 | 551 | 245 | 1 |
| TRJC686*010#RJ | C | 68 | 10 | 85 | 7 | 125 | 5.1 | 6 | 490 | 474 | 426 | 190 | 1 |
| TRJC686*010#0300 | C | 68 | 10 | 85 | 7 | 125 | 5.1 | 6 | 300 | 606 | 545 | 242 | 1 |
| TRJC107*010#RJ | C | 100 | 10 | 85 | 7 | 125 | 7.5 | 8 | 500 | 469 | 422 | 188 | 1 |
| TRJC107*010#0200 | C | 100 | 10 | 85 | 7 | 125 | 7.5 | 8 | 200 | 742 | 667 | 297 | 1 |



The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.

TRJ Series

Professional Tantalum Chip Capacitor



RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (mΩ) | 100kHz RMS Current (mA) | | | MSL |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|------------------------|-------------------------|------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | |
| TRJD107*010#RJ | D | 100 | 10 | 85 | 7 | 125 | 7.5 | 6 | 440 | 584 | 525 | 234 | 1 |
| TRJD107*010#0100 | D | 100 | 10 | 85 | 7 | 125 | 7.5 | 6 | 100 | 1225 | 1102 | 490 | 1 |
| TRJD107*010#0150 | D | 100 | 10 | 85 | 7 | 125 | 7.5 | 6 | 150 | 1000 | 900 | 400 | 1 |
| TRJE107*010#RJ | E | 100 | 10 | 85 | 7 | 125 | 7.5 | 6 | 440 | 612 | 551 | 245 | 1 ¹⁾ |
| TRJE107*010#0100 | E | 100 | 10 | 85 | 7 | 125 | 7.5 | 6 | 100 | 1285 | 1156 | 514 | 1 ¹⁾ |
| TRJD157*010#RJ | D | 150 | 10 | 85 | 7 | 125 | 11 | 8 | 400 | 612 | 551 | 245 | 1 |
| TRJD157*010#0150 | D | 150 | 10 | 85 | 7 | 125 | 11 | 8 | 150 | 1000 | 900 | 400 | 1 |
| TRJE157*010#RJ | E | 150 | 10 | 85 | 7 | 125 | 11 | 8 | 400 | 642 | 578 | 257 | 1 ¹⁾ |
| TRJE157*010#0150 | E | 150 | 10 | 85 | 7 | 125 | 11 | 8 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJD227*010#RJ | D | 220 | 10 | 85 | 7 | 125 | 17 | 8 | 500 | 548 | 493 | 219 | 1 |
| TRJE227*010#RJ | E | 220 | 10 | 85 | 7 | 125 | 17 | 8 | 360 | 677 | 609 | 271 | 1 ¹⁾ |
| TRJE227*010#0150 | E | 220 | 10 | 85 | 7 | 125 | 17 | 8 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJE337*010#RJ | E | 330 | 10 | 85 | 7 | 125 | 25 | 8 | 300 | 742 | 667 | 297 | 1 ¹⁾ |
| TRJE337*010#0100 | E | 330 | 10 | 85 | 7 | 125 | 25 | 8 | 100 | 1285 | 1156 | 514 | 1 ¹⁾ |
| TRJU477*010RRJV | U | 470 | 10 | 85 | 7 | 125 | 35 | 30 | 400 | 642 | 578 | 257 | 3 |
| TRJU477*010R0200V | U | 470 | 10 | 85 | 7 | 125 | 35 | 30 | 200 | 908 | 817 | 363 | 3 |
| 16 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA105*016#RJ | A | 1.0 | 16 | 85 | 10 | 125 | 0.3 | 6 | 10000 | 87 | 78 | 35 | 1 |
| TRJA225*016#RJ | A | 2.2 | 16 | 85 | 10 | 125 | 0.3 | 6 | 4550 | 128 | 116 | 51 | 1 |
| TRJA225*016#3500 | A | 2.2 | 16 | 85 | 10 | 125 | 0.3 | 6 | 3500 | 146 | 132 | 59 | 1 |
| TRJA335*016#RJ | A | 3.3 | 16 | 85 | 10 | 125 | 0.4 | 6 | 3740 | 142 | 127 | 57 | 1 |
| TRJA335*016#3500 | A | 3.3 | 16 | 85 | 10 | 125 | 0.4 | 6 | 3500 | 146 | 132 | 59 | 1 |
| TRJB335*016#RJ | B | 3.3 | 16 | 85 | 10 | 125 | 0.4 | 6 | 4500 | 137 | 124 | 55 | 1 |
| TRJA475*016#RJ | A | 4.7 | 16 | 85 | 10 | 125 | 0.56 | 6 | 3160 | 154 | 139 | 62 | 1 |
| TRJA475*016#2000 | A | 4.7 | 16 | 85 | 10 | 125 | 0.56 | 6 | 2000 | 194 | 174 | 77 | 1 |
| TRJB475*016#RJ | B | 4.7 | 16 | 85 | 10 | 125 | 0.56 | 6 | 3160 | 164 | 148 | 66 | 1 |
| TRJB475*016#1500 | B | 4.7 | 16 | 85 | 10 | 125 | 0.56 | 6 | 1500 | 238 | 214 | 95 | 1 |
| TRJA685*016#RJ | A | 6.8 | 16 | 85 | 10 | 125 | 0.82 | 4 | 2000 | 194 | 174 | 77 | 1 |
| TRJA685*016#1500 | A | 6.8 | 16 | 85 | 10 | 125 | 0.82 | 4 | 1500 | 224 | 201 | 89 | 1 |
| TRJB685*016#RJ | B | 6.8 | 16 | 85 | 10 | 125 | 0.82 | 6 | 2650 | 179 | 161 | 72 | 1 |
| TRJB685*016#1200 | B | 6.8 | 16 | 85 | 10 | 125 | 0.82 | 6 | 1200 | 266 | 240 | 106 | 1 |
| TRJC685*016#RJ | C | 6.8 | 16 | 85 | 10 | 125 | 0.82 | 6 | 2500 | 210 | 189 | 84 | 1 |
| TRJB106*016#RJ | B | 10 | 16 | 85 | 10 | 125 | 1.2 | 6 | 2200 | 197 | 177 | 79 | 1 |
| TRJB106*016#0800 | B | 10 | 16 | 85 | 10 | 125 | 1.2 | 6 | 800 | 326 | 293 | 130 | 1 |
| TRJC106*016#RJ | C | 10 | 16 | 85 | 10 | 125 | 1.2 | 6 | 2000 | 235 | 211 | 94 | 1 |
| TRJB156*016#RJ | B | 15 | 16 | 85 | 10 | 125 | 1.8 | 6 | 2030 | 205 | 184 | 82 | 1 |
| TRJB156*016#0800 | B | 15 | 16 | 85 | 10 | 125 | 1.8 | 6 | 800 | 326 | 293 | 130 | 1 |
| TRJB226*016#RJ | B | 22 | 16 | 85 | 10 | 125 | 2.6 | 6 | 1100 | 278 | 250 | 111 | 1 |
| TRJB226*016#0600 | B | 22 | 16 | 85 | 10 | 125 | 2.6 | 6 | 600 | 376 | 339 | 151 | 1 |
| TRJC226*016#RJ | C | 22 | 16 | 85 | 10 | 125 | 2.6 | 6 | 700 | 396 | 357 | 159 | 1 |
| TRJC226*016#0350 | C | 22 | 16 | 85 | 10 | 125 | 2.6 | 6 | 350 | 561 | 505 | 224 | 1 |
| TRJD226*016#RJ | D | 22 | 16 | 85 | 10 | 125 | 2.6 | 6 | 1100 | 369 | 332 | 148 | 1 |
| TRJC336*016#RJ | C | 33 | 16 | 85 | 10 | 125 | 4 | 6 | 590 | 432 | 389 | 173 | 1 |
| TRJC336*016#0300 | C | 33 | 16 | 85 | 10 | 125 | 4 | 6 | 300 | 606 | 545 | 242 | 1 |
| TRJC476*016#RJ | C | 47 | 16 | 85 | 10 | 125 | 5.6 | 6 | 540 | 451 | 406 | 181 | 1 |
| TRJC476*016#0350 | C | 47 | 16 | 85 | 10 | 125 | 5.6 | 6 | 350 | 561 | 505 | 224 | 1 |
| TRJD476*016#RJ | D | 47 | 16 | 85 | 10 | 125 | 5.6 | 6 | 540 | 527 | 474 | 211 | 1 |
| TRJD476*016#0200 | D | 47 | 16 | 85 | 10 | 125 | 5.6 | 6 | 200 | 866 | 779 | 346 | 1 |
| TRJC686*016#RJ | C | 68 | 16 | 85 | 10 | 125 | 8.2 | 6 | 490 | 474 | 426 | 190 | 1 |
| TRJC686*016#0200 | C | 68 | 16 | 85 | 10 | 125 | 8.2 | 6 | 200 | 742 | 667 | 297 | 1 |
| TRJD686*016#RJ | D | 68 | 16 | 85 | 10 | 125 | 8.2 | 6 | 490 | 553 | 498 | 221 | 1 |
| TRJD686*016#0150 | D | 68 | 16 | 85 | 10 | 125 | 8.2 | 6 | 150 | 1000 | 900 | 400 | 1 |
| TRJD107*016#RJ | D | 100 | 16 | 85 | 10 | 125 | 12 | 6 | 440 | 584 | 525 | 234 | 1 |
| TRJD107*016#0150 | D | 100 | 16 | 85 | 10 | 125 | 12 | 6 | 150 | 1000 | 900 | 400 | 1 |
| TRJE107*016#RJ | E | 100 | 16 | 85 | 10 | 125 | 12 | 6 | 440 | 612 | 551 | 245 | 1 ¹⁾ |
| TRJE107*016#0150 | E | 100 | 16 | 85 | 10 | 125 | 12 | 6 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJE157*016#RJ | E | 150 | 16 | 85 | 10 | 125 | 16 | 6 | 300 | 742 | 667 | 297 | 1 ¹⁾ |
| TRJE157*016#0150 | E | 150 | 16 | 85 | 10 | 125 | 16 | 6 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJU227*016RRJV | U | 220 | 16 | 85 | 10 | 125 | 26.4 | 12 | 500 | 574 | 517 | 230 | 3 |
| TRJU227*016R0200V | U | 220 | 16 | 85 | 10 | 125 | 26.4 | 12 | 200 | 908 | 817 | 363 | 3 |
| TRJU337*016RRJV | U | 330 | 16 | 85 | 10 | 125 | 39 | 30 | 400 | 642 | 578 | 257 | 3 |
| TRJU337*016R0200V | U | 330 | 16 | 85 | 10 | 125 | 39 | 30 | 200 | 908 | 817 | 363 | 3 |
| 20 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA105*020#RJ | A | 1 | 20 | 85 | 13 | 125 | 0.3 | 4 | 6630 | 106 | 96 | 43 | 1 |
| TRJA105*020#3000 | A | 1 | 20 | 85 | 13 | 125 | 0.3 | 4 | 3000 | 158 | 142 | 63 | 1 |
| TRJA155*020#RJ | A | 1.5 | 20 | 85 | 13 | 125 | 0.3 | 6 | 5460 | 117 | 105 | 47 | 1 |
| TRJA155*020#3000 | A | 1.5 | 20 | 85 | 13 | 125 | 0.3 | 6 | 3000 | 158 | 142 | 63 | 1 |
| TRJA225*020#RJ | A | 2.2 | 20 | 85 | 13 | 125 | 0.33 | 6 | 4550 | 128 | 116 | 51 | 1 |
| TRJA225*020#3000 | A | 2.2 | 20 | 85 | 13 | 125 | 0.33 | 6 | 3000 | 158 | 142 | 63 | 1 |
| TRJA335*020#RJ | A | 3.3 | 20 | 85 | 13 | 125 | 0.5 | 6 | 3740 | 142 | 127 | 57 | 1 |
| TRJA335*020#2500 | A | 3.3 | 20 | 85 | 13 | 125 | 0.5 | 6 | 2500 | 173 | 156 | 69 | 1 |



TRJ Series

Professional Tantalum Chip Capacitor



RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (mΩ) | 100kHz RMS Current (mA) | | | MSL |
|-------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|------------------------|-------------------------|------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | |
| TRJB335*020#RJ | B | 3.3 | 20 | 85 | 13 | 125 | 0.5 | 6 | 3740 | 151 | 136 | 60 | 1 |
| TRJB335*020#1300 | B | 3.3 | 20 | 85 | 13 | 125 | 0.5 | 6 | 1300 | 256 | 230 | 102 | 1 |
| TRJA475*020#RJ | A | 4.7 | 20 | 85 | 13 | 125 | 0.71 | 5 | 2500 | 184 | 166 | 74 | 1 |
| TRJA475*020#1800 | A | 4.7 | 20 | 85 | 13 | 125 | 0.71 | 5 | 1800 | 217 | 196 | 87 | 1 |
| TRJB475*020#RJ | B | 4.7 | 20 | 85 | 13 | 125 | 0.71 | 6 | 3160 | 164 | 148 | 66 | 1 |
| TRJB475*020#1000 | B | 4.7 | 20 | 85 | 13 | 125 | 0.71 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJB685*020#RJ | B | 6.8 | 20 | 85 | 13 | 125 | 1 | 6 | 2650 | 179 | 161 | 72 | 1 |
| TRJB685*020#1000 | B | 6.8 | 20 | 85 | 13 | 125 | 1 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJC685*020#RJ | C | 6.8 | 20 | 85 | 13 | 125 | 1 | 6 | 2000 | 235 | 211 | 94 | 1 |
| TRJB106*020#RJ | B | 10 | 20 | 85 | 13 | 125 | 1.5 | 6 | 2200 | 197 | 177 | 79 | 1 |
| TRJB106*020#1000 | B | 10 | 20 | 85 | 13 | 125 | 1.5 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJC106*020#RJ | C | 10 | 20 | 85 | 13 | 125 | 1.5 | 6 | 800 | 371 | 334 | 148 | 1 |
| TRJC106*020#0500 | C | 10 | 20 | 85 | 13 | 125 | 1.5 | 6 | 500 | 469 | 422 | 188 | 1 |
| TRJB156*020#RJ | B | 15 | 20 | 85 | 13 | 125 | 2.3 | 6 | 1400 | 280 | 252 | 112 | 1 |
| TRJB156*020#0500 | B | 15 | 20 | 85 | 13 | 125 | 2.3 | 6 | 500 | 469 | 422 | 188 | 1 |
| TRJC156*020#RJ | C | 15 | 20 | 85 | 13 | 125 | 2.3 | 6 | 720 | 391 | 352 | 156 | 1 |
| TRJC156*020#0400 | C | 15 | 20 | 85 | 13 | 125 | 2.3 | 6 | 400 | 524 | 472 | 210 | 1 |
| TRJD156*020#RJ | D | 15 | 20 | 85 | 13 | 125 | 2.3 | 6 | 1100 | 369 | 332 | 148 | 1 |
| TRJC226*020#RJ | C | 22 | 20 | 85 | 13 | 125 | 3.3 | 6 | 650 | 411 | 370 | 165 | 1 |
| TRJC226*020#0400 | C | 22 | 20 | 85 | 13 | 125 | 3.3 | 6 | 400 | 524 | 472 | 210 | 1 |
| TRJD226*020#RJ | D | 22 | 20 | 85 | 13 | 125 | 3.3 | 6 | 650 | 480 | 432 | 192 | 1 |
| TRJD226*020#0150 | D | 22 | 20 | 85 | 13 | 125 | 3.3 | 6 | 150 | 1000 | 900 | 400 | 1 |
| TRJD226*020#0300 | D | 22 | 20 | 85 | 13 | 125 | 3.3 | 6 | 300 | 707 | 636 | 283 | 1 |
| TRJC336*020#RJ | C | 33 | 20 | 85 | 13 | 125 | 5 | 6 | 590 | 432 | 389 | 173 | 1 |
| TRJC336*020#0300 | C | 33 | 20 | 85 | 13 | 125 | 5 | 6 | 300 | 606 | 545 | 242 | 1 |
| TRJD336*020#RJ | D | 33 | 20 | 85 | 13 | 125 | 5 | 6 | 590 | 504 | 454 | 202 | 1 |
| TRJD336*020#0250 | D | 33 | 20 | 85 | 13 | 125 | 5 | 6 | 250 | 775 | 697 | 310 | 1 |
| TRJD476*020#RJ | D | 47 | 20 | 85 | 13 | 125 | 7.1 | 6 | 540 | 527 | 474 | 211 | 1 |
| TRJD476*020#0200 | D | 47 | 20 | 85 | 13 | 125 | 7.1 | 6 | 200 | 866 | 779 | 346 | 1 |
| TRJD686*020#RJ | D | 68 | 20 | 85 | 13 | 125 | 10 | 6 | 490 | 553 | 498 | 221 | 1 |
| TRJD686*020#0200 | D | 68 | 20 | 85 | 13 | 125 | 10 | 6 | 200 | 866 | 779 | 346 | 1 |
| TRJE686*020#RJ | E | 68 | 20 | 85 | 13 | 125 | 10 | 6 | 490 | 580 | 522 | 232 | 1 ¹⁾ |
| TRJE686*020#0120 | E | 68 | 20 | 85 | 13 | 125 | 10 | 6 | 120 | 1173 | 1055 | 469 | 1 ¹⁾ |
| TRJE686*020#0200 | E | 68 | 20 | 85 | 13 | 125 | 10 | 6 | 200 | 908 | 817 | 363 | 1 ¹⁾ |
| TRJE107*020#RJ | E | 100 | 20 | 85 | 13 | 125 | 15 | 6 | 300 | 742 | 667 | 297 | 1 ¹⁾ |
| TRJE107*020#0150 | E | 100 | 20 | 85 | 13 | 125 | 15 | 6 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJU157*020RRJV | U | 150 | 20 | 85 | 13 | 125 | 22 | 30 | 500 | 574 | 517 | 230 | 3 |
| TRJU157*020R0250V | U | 150 | 20 | 85 | 13 | 125 | 22 | 30 | 250 | 812 | 731 | 325 | 3 |
| 25 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA474*025#RJ | A | 0.47 | 25 | 85 | 17 | 125 | 0.3 | 4 | 9530 | 89 | 80 | 35 | 1 |
| TRJA474*025#7000 | A | 0.47 | 25 | 85 | 17 | 125 | 0.3 | 4 | 7000 | 104 | 93 | 41 | 1 |
| TRJA684*025#RJ | A | 0.68 | 25 | 85 | 17 | 125 | 0.3 | 4 | 7980 | 97 | 87 | 39 | 1 |
| TRJA684*025#6000 | A | 0.68 | 25 | 85 | 17 | 125 | 0.3 | 4 | 6000 | 112 | 101 | 45 | 1 |
| TRJA105*025#RJ | A | 1 | 25 | 85 | 17 | 125 | 0.3 | 4 | 6630 | 106 | 96 | 43 | 1 |
| TRJA105*025#3000 | A | 1 | 25 | 85 | 17 | 125 | 0.3 | 4 | 3000 | 158 | 142 | 63 | 1 |
| TRJA155*025#RJ | A | 1.5 | 25 | 85 | 17 | 125 | 0.3 | 6 | 5460 | 117 | 105 | 47 | 1 |
| TRJA155*025#3000 | A | 1.5 | 25 | 85 | 17 | 125 | 0.3 | 6 | 3000 | 158 | 142 | 63 | 1 |
| TRJB155*025#RJ | B | 1.5 | 25 | 85 | 17 | 125 | 0.3 | 6 | 5000 | 130 | 117 | 52 | 1 |
| TRJA225*025#RJ | A | 2.2 | 25 | 85 | 17 | 125 | 0.41 | 6 | 2900 | 161 | 145 | 64 | 1 |
| TRJA225*025#1600 | A | 2.2 | 25 | 85 | 17 | 125 | 0.41 | 6 | 1600 | 217 | 195 | 87 | 1 |
| TRJB225*025#RJ | B | 2.2 | 25 | 85 | 17 | 125 | 0.41 | 6 | 4550 | 137 | 123 | 55 | 1 |
| TRJB225*025#1200 | B | 2.2 | 25 | 85 | 17 | 125 | 0.41 | 6 | 1200 | 266 | 240 | 106 | 1 |
| TRJB335*025#RJ | B | 3.3 | 25 | 85 | 17 | 125 | 0.62 | 6 | 3740 | 151 | 136 | 60 | 1 |
| TRJB335*025#2000 | B | 3.3 | 25 | 85 | 17 | 125 | 0.62 | 6 | 2000 | 206 | 186 | 82 | 1 |
| TRJB475*025#RJ | B | 4.7 | 25 | 85 | 17 | 125 | 0.88 | 6 | 3160 | 164 | 148 | 66 | 1 |
| TRJB475*025#1000 | B | 4.7 | 25 | 85 | 17 | 125 | 0.88 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJB685*025#RJ | B | 6.8 | 25 | 85 | 17 | 125 | 1.3 | 6 | 1500 | 238 | 214 | 95 | 1 |
| TRJB685*025#1000 | B | 6.8 | 25 | 85 | 17 | 125 | 1.3 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJC685*025#RJ | C | 6.8 | 25 | 85 | 17 | 125 | 1.3 | 6 | 1070 | 321 | 289 | 128 | 1 |
| TRJC685*025#0600 | C | 6.8 | 25 | 85 | 17 | 125 | 1.3 | 6 | 600 | 428 | 385 | 171 | 1 |
| TRJC106*025#RJ | C | 10 | 25 | 85 | 17 | 125 | 1.9 | 6 | 800 | 371 | 334 | 148 | 1 |
| TRJC106*025#0600 | C | 10 | 25 | 85 | 17 | 125 | 1.9 | 6 | 600 | 428 | 385 | 171 | 1 |
| TRJD106*025#RJ | D | 10 | 25 | 85 | 17 | 125 | 1.9 | 6 | 1200 | 354 | 318 | 141 | 1 |
| TRJC156*025#RJ | C | 15 | 25 | 85 | 17 | 125 | 2.8 | 6 | 720 | 391 | 352 | 156 | 1 |
| TRJC156*025#0500 | C | 15 | 25 | 85 | 17 | 125 | 2.8 | 6 | 500 | 469 | 422 | 188 | 1 |
| TRJD156*025#RJ | D | 15 | 25 | 85 | 17 | 125 | 2.8 | 6 | 720 | 456 | 411 | 183 | 1 |
| TRJD156*025#0300 | D | 15 | 25 | 85 | 17 | 125 | 2.8 | 6 | 300 | 707 | 636 | 283 | 1 |
| TRJD226*025#RJ | D | 22 | 25 | 85 | 17 | 125 | 4.1 | 6 | 650 | 480 | 432 | 192 | 1 |
| TRJD226*025#0300 | D | 22 | 25 | 85 | 17 | 125 | 4.1 | 6 | 300 | 707 | 636 | 283 | 1 |
| TRJD336*025#RJ | D | 33 | 25 | 85 | 17 | 125 | 6.2 | 6 | 590 | 504 | 454 | 202 | 1 |
| TRJD336*025#0400 | D | 33 | 25 | 85 | 17 | 125 | 6.2 | 6 | 400 | 612 | 551 | 245 | 1 |



The Important Information/Disclaimer is incorporated in these specifications by reference and should be reviewed in full before placing any order.

TRJ Series

Professional Tantalum Chip Capacitor



RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (mΩ) | 100kHz RMS Current (mA) | | | MSL |
|-------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|------------------------|-------------------------|------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | |
| TRJD476*025#RJ | D | 47 | 25 | 85 | 17 | 125 | 8.8 | 6 | 540 | 527 | 474 | 211 | 1 |
| TRJD476*025#0250 | D | 47 | 25 | 85 | 17 | 125 | 8.8 | 6 | 250 | 775 | 697 | 310 | 1 |
| TRJE476*025#RJ | E | 47 | 25 | 85 | 17 | 125 | 8.8 | 6 | 540 | 553 | 497 | 221 | 1 ¹⁾ |
| TRJE476*025#0150 | E | 47 | 25 | 85 | 17 | 125 | 8.8 | 6 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJU686*025RRJV | U | 68 | 25 | 85 | 17 | 125 | 12 | 30 | 500 | 574 | 517 | 230 | 3 |
| TRJU107*025RRJV | U | 100 | 25 | 85 | 17 | 125 | 18 | 30 | 500 | 574 | 517 | 230 | 3 |
| 35 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA104*035#RJ | A | 0.1 | 35 | 85 | 23 | 125 | 0.3 | 4 | 20000 | 61 | 55 | 24 | 1 |
| TRJA154*035#RJ | A | 0.15 | 35 | 85 | 23 | 125 | 0.3 | 4 | 16470 | 67 | 61 | 27 | 1 |
| TRJA154*035#6000 | A | 0.15 | 35 | 85 | 23 | 125 | 0.3 | 4 | 6000 | 112 | 101 | 45 | 1 |
| TRJA224*035#RJ | A | 0.22 | 35 | 85 | 23 | 125 | 0.3 | 4 | 13710 | 74 | 67 | 30 | 1 |
| TRJA224*035#6000 | A | 0.22 | 35 | 85 | 23 | 125 | 0.3 | 4 | 6000 | 112 | 101 | 45 | 1 |
| TRJA334*035#RJ | A | 0.33 | 35 | 85 | 23 | 125 | 0.3 | 4 | 11280 | 82 | 73 | 33 | 1 |
| TRJA334*035#6000 | A | 0.33 | 35 | 85 | 23 | 125 | 0.3 | 4 | 6000 | 112 | 101 | 45 | 1 |
| TRJA474*035#RJ | A | 0.47 | 35 | 85 | 23 | 125 | 0.3 | 4 | 9530 | 89 | 80 | 35 | 1 |
| TRJA474*035#4000 | A | 0.47 | 35 | 85 | 23 | 125 | 0.3 | 4 | 4000 | 137 | 123 | 55 | 1 |
| TRJA684*035#RJ | A | 0.68 | 35 | 85 | 23 | 125 | 0.3 | 4 | 7980 | 97 | 87 | 39 | 1 |
| TRJA684*035#6000 | A | 0.68 | 35 | 85 | 23 | 125 | 0.3 | 4 | 6000 | 112 | 101 | 45 | 1 |
| TRJA105*035#RJ | A | 1 | 35 | 85 | 23 | 125 | 0.3 | 4 | 6630 | 106 | 96 | 43 | 1 |
| TRJA105*035#3000 | A | 1 | 35 | 85 | 23 | 125 | 0.3 | 4 | 3000 | 158 | 142 | 63 | 1 |
| TRJB105*035#RJ | B | 1 | 35 | 85 | 23 | 125 | 0.3 | 4 | 3400 | 158 | 142 | 63 | 1 |
| TRJB105*035#2000 | B | 1 | 35 | 85 | 23 | 125 | 0.3 | 4 | 2000 | 206 | 186 | 82 | 1 |
| TRJA155*035#RJ | A | 1.5 | 35 | 85 | 23 | 125 | 0.39 | 6 | 3100 | 166 | 149 | 66 | 1 |
| TRJA155*035#2000 | A | 1.5 | 35 | 85 | 23 | 125 | 0.39 | 6 | 2000 | 206 | 186 | 82 | 1 |
| TRJB155*035#RJ | B | 1.5 | 35 | 85 | 23 | 125 | 0.39 | 6 | 5460 | 125 | 112 | 50 | 1 |
| TRJB155*035#2500 | B | 1.5 | 35 | 85 | 23 | 125 | 0.39 | 6 | 2500 | 184 | 166 | 74 | 1 |
| TRJB225*035#RJ | B | 2.2 | 35 | 85 | 23 | 125 | 0.58 | 6 | 4550 | 137 | 123 | 55 | 1 |
| TRJB225*035#2000 | B | 2.2 | 35 | 85 | 23 | 125 | 0.58 | 6 | 2000 | 206 | 186 | 82 | 1 |
| TRJB335*035#RJ | B | 3.3 | 35 | 85 | 23 | 125 | 0.87 | 6 | 3740 | 151 | 136 | 60 | 1 |
| TRJB335*035#1000 | B | 3.3 | 35 | 85 | 23 | 125 | 0.87 | 6 | 1000 | 292 | 262 | 117 | 1 |
| TRJC335*035#RJ | C | 3.3 | 35 | 85 | 23 | 125 | 0.87 | 6 | 1840 | 245 | 220 | 98 | 1 |
| TRJC335*035#0800 | C | 3.3 | 35 | 85 | 23 | 125 | 0.87 | 6 | 800 | 371 | 334 | 148 | 1 |
| TRJD335*035#RJ | D | 3.3 | 35 | 85 | 23 | 125 | 0.87 | 6 | 2000 | 274 | 246 | 110 | 1 |
| TRJB475*035#RJ | B | 4.7 | 35 | 85 | 23 | 125 | 1.2 | 6 | 2200 | 224 | 201 | 89 | 1 |
| TRJB475*035#1500 | B | 4.7 | 35 | 85 | 23 | 125 | 1.2 | 6 | 1500 | 271 | 244 | 108 | 1 |
| TRJC475*035#RJ | C | 4.7 | 35 | 85 | 23 | 125 | 1.2 | 6 | 1410 | 279 | 251 | 112 | 1 |
| TRJC475*035#0600 | C | 4.7 | 35 | 85 | 23 | 125 | 1.2 | 6 | 600 | 428 | 385 | 171 | 1 |
| TRJD475*035#RJ | D | 4.7 | 35 | 85 | 23 | 125 | 1.2 | 6 | 1500 | 316 | 285 | 126 | 1 |
| TRJC685*035#RJ | C | 6.8 | 35 | 85 | 23 | 125 | 1.8 | 6 | 1070 | 321 | 289 | 128 | 1 |
| TRJC685*035#0600 | C | 6.8 | 35 | 85 | 23 | 125 | 1.8 | 6 | 600 | 428 | 385 | 171 | 1 |
| TRJD685*035#RJ | D | 6.8 | 35 | 85 | 23 | 125 | 1.8 | 6 | 1300 | 340 | 306 | 136 | 1 |
| TRJC106*035#RJ | C | 10 | 35 | 85 | 23 | 125 | 2.6 | 6 | 800 | 371 | 334 | 148 | 1 |
| TRJC106*035#0600 | C | 10 | 35 | 85 | 23 | 125 | 2.6 | 6 | 600 | 428 | 385 | 171 | 1 |
| TRJD106*035#RJ | D | 10 | 35 | 85 | 23 | 125 | 2.6 | 6 | 800 | 433 | 390 | 173 | 1 |
| TRJD106*035#0250 | D | 10 | 35 | 85 | 23 | 125 | 2.6 | 6 | 250 | 775 | 697 | 310 | 1 |
| TRJD106*035#0400 | D | 10 | 35 | 85 | 23 | 125 | 2.6 | 6 | 400 | 612 | 551 | 245 | 1 |
| TRJD156*035#RJ | D | 15 | 35 | 85 | 23 | 125 | 3.9 | 6 | 720 | 456 | 411 | 183 | 1 |
| TRJD156*035#0225 | D | 15 | 35 | 85 | 23 | 125 | 3.9 | 6 | 225 | 816 | 735 | 327 | 1 |
| TRJD226*035#RJ | D | 22 | 35 | 85 | 23 | 125 | 5.8 | 6 | 650 | 480 | 432 | 192 | 1 |
| TRJD226*035#0200 | D | 22 | 35 | 85 | 23 | 125 | 5.8 | 6 | 200 | 866 | 779 | 346 | 1 |
| TRJD226*035#0400 | D | 22 | 35 | 85 | 23 | 125 | 5.8 | 6 | 400 | 612 | 551 | 245 | 1 |
| TRJE336*035#RJ | E | 33 | 35 | 85 | 23 | 125 | 8.7 | 6 | 590 | 529 | 476 | 212 | 1 ¹⁾ |
| TRJE336*035#0150 | E | 33 | 35 | 85 | 23 | 125 | 8.7 | 6 | 150 | 1049 | 944 | 420 | 1 ¹⁾ |
| TRJE336*035#0250 | E | 33 | 35 | 85 | 23 | 125 | 8.7 | 6 | 250 | 812 | 731 | 325 | 1 ¹⁾ |
| TRJU476*035RRJV | U | 47 | 35 | 85 | 23 | 125 | 12.3 | 10 | 400 | 642 | 578 | 257 | 3 |
| TRJU476*035R0200V | U | 47 | 35 | 85 | 23 | 125 | 12.3 | 10 | 200 | 908 | 8.17 | 363 | 3 |
| 50 Volt @ 85°C | | | | | | | | | | | | | |
| TRJA224*050#RJ | A | 0.22 | 50 | 85 | 33 | 125 | 0.3 | 4 | 7500 | 100 | 90 | 40 | 1 |
| TRJA224*050#7000 | A | 0.22 | 50 | 85 | 33 | 125 | 0.3 | 4 | 7000 | 104 | 93 | 41 | 1 |
| TRJA334*050#RJ | A | 0.33 | 50 | 85 | 33 | 125 | 0.3 | 4 | 7000 | 104 | 93 | 41 | 1 |
| TRJB474*050#RJ | B | 0.47 | 50 | 85 | 33 | 125 | 0.3 | 4 | 5000 | 130 | 117 | 52 | 1 |
| TRJB684*050#RJ | B | 0.68 | 50 | 85 | 33 | 125 | 0.3 | 4 | 4000 | 146 | 131 | 58 | 1 |
| TRJB684*050#2000 | B | 0.68 | 50 | 85 | 33 | 125 | 0.3 | 4 | 2000 | 206 | 186 | 82 | 1 |
| TRJB105*050#RJ | B | 1 | 50 | 85 | 33 | 125 | 0.4 | 4 | 3400 | 158 | 142 | 63 | 1 |
| TRJB105*050#2000 | B | 1 | 50 | 85 | 33 | 125 | 0.4 | 4 | 2000 | 206 | 186 | 82 | 1 |
| TRJC105*050#RJ | C | 1 | 50 | 85 | 33 | 125 | 0.4 | 4 | 3000 | 191 | 172 | 77 | 1 |
| TRJC155*050#RJ | C | 1.5 | 50 | 85 | 33 | 125 | 0.6 | 6 | 2500 | 210 | 189 | 84 | 1 |
| TRJC155*050#1500 | C | 1.5 | 50 | 85 | 33 | 125 | 0.6 | 6 | 1500 | 271 | 244 | 108 | 1 |
| TRJC225*050#RJ | C | 2.2 | 50 | 85 | 33 | 125 | 0.8 | 6 | 1700 | 254 | 229 | 102 | 1 |
| TRJC225*050#1000 | C | 2.2 | 50 | 85 | 33 | 125 | 0.8 | 6 | 1000 | 332 | 298 | 133 | 1 |
| TRJD225*050#RJ | D | 2.2 | 50 | 85 | 33 | 125 | 0.8 | 4.5 | 2000 | 274 | 246 | 110 | 1 |



TRJ Series

Professional Tantalum Chip Capacitor



RATINGS & PART NUMBER REFERENCE

| AVX Part No. | Case Size | Capacitance (µF) | Rated Voltage (V) | Rated Temperature (°C) | Category Voltage (V) | Category Temperature (°C) | DCL Max. (µA) | DF Max. (%) | ESR Max. @ 100kHz (mΩ) | 100kHz RMS Current (mA) | | | MSL |
|------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|------------------------|-------------------------|------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | |
| TRJD225*050#1200 | D | 2.2 | 50 | 85 | 33 | 125 | 0.8 | 4.5 | 1200 | 354 | 318 | 141 | 1 |
| TRJC335*050#RJ | C | 3.3 | 50 | 85 | 33 | 125 | 1.2 | 6 | 1400 | 280 | 252 | 112 | 1 |
| TRJC335*050#1000 | C | 3.3 | 50 | 85 | 33 | 125 | 1.2 | 6 | 1000 | 332 | 298 | 133 | 1 |
| TRJD335*050#RJ | D | 3.3 | 50 | 85 | 33 | 125 | 1.2 | 4.5 | 1100 | 369 | 332 | 148 | 1 |
| TRJD335*050#0800 | D | 3.3 | 50 | 85 | 33 | 125 | 1.2 | 4.5 | 800 | 433 | 390 | 173 | 1 |
| TRJD475*050#RJ | D | 4.7 | 50 | 85 | 33 | 125 | 1.8 | 4.5 | 900 | 408 | 367 | 163 | 1 |
| TRJD475*050#0600 | D | 4.7 | 50 | 85 | 33 | 125 | 1.8 | 4.5 | 600 | 500 | 450 | 200 | 1 |
| TRJD685*050#RJ | D | 6.8 | 50 | 85 | 33 | 125 | 2.6 | 4.5 | 700 | 463 | 417 | 185 | 1 |
| TRJE106*050#RJ | E | 10 | 50 | 85 | 33 | 125 | 3.8 | 4.5 | 700 | 486 | 437 | 194 | 1 ¹⁾ |
| TRJE106*050#0300 | E | 10 | 50 | 85 | 33 | 125 | 3.8 | 4.5 | 300 | 742 | 667 | 297 | 1 ¹⁾ |
| TRJE106*050#0400 | E | 10 | 50 | 85 | 33 | 125 | 3.8 | 4.5 | 400 | 642 | 578 | 257 | 1 ¹⁾ |
| TRJU156*050RRJV | U | 15 | 50 | 85 | 33 | 125 | 5.6 | 30 | 500 | 574 | 517 | 230 | 3 |
| TRJU226*050RRJV | U | 22 | 50 | 85 | 33 | 125 | 8.2 | 30 | 500 | 574 | 517 | 230 | 3 |

1¹⁾ Dry pack option (see How to order) is recommended for reduction of stress during soldering. Dry pack parts should be treated as MSL 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 low ESR Solid Tantalum Capacitors allow an ESR movement to 1.25 times catalogue limit post mounting.

For typical weight and composition see page 274.

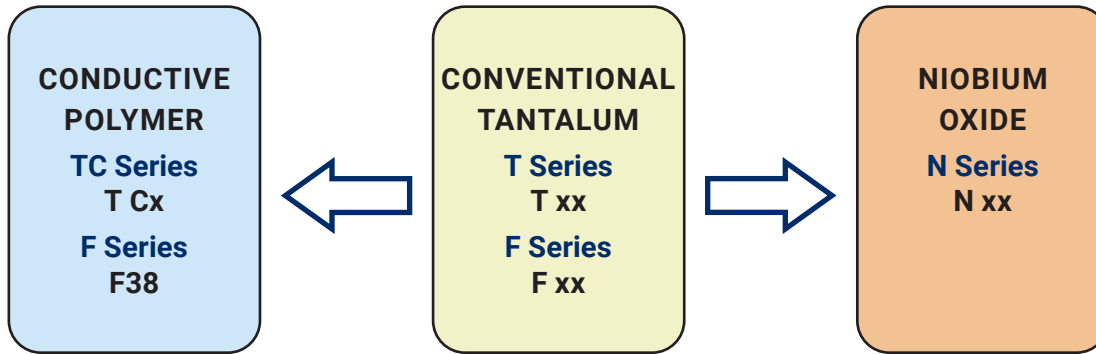
NOTE: AVX reserves the right to supply higher voltage ratings or tighter tolerance part in the same case size, to the same reliability standards.

QUALIFICATION TABLE

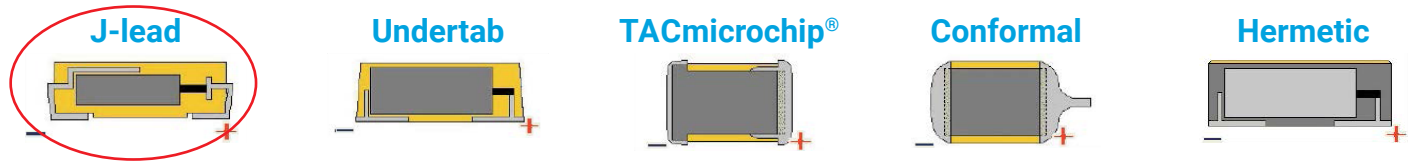
| TEST | TRJ professional series (Temperature range -55°C to +125°C) | | | | | | | | | | |
|------------------------------|---|---------------|---------------|--------------------|------------------------------------|-----------|-----------|-----------|------------|-----------|--|
| | Condition | | | Characteristics | | | | | | | |
| Endurance | Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 125°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 | 1.25 x initial limit | | | | | | |
| | | | | $\Delta C/C$ | within $\pm 10\%$ of initial value | | | | | | |
| | | | | DF | initial limit | | | | | | |
| | | | | ESR | 1.25 x initial limit | | | | | | |
| Storage Life | Store at 125°C, no voltage applied, for 2000 hours. Stabilize at room temperature for 1-2 hours before measuring. | | | Visual examination | no visible damage | | | | | | |
| | | | | DCL | 1.25 x 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% 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 | +125°C | +20°C | |
| | 1 | +20 | 15 | | | | | | | | |
| | 2 | -55 | 15 | DCL | IL* | n/a | IL* | 10 x IL* | 12.5 x IL* | IL* | |
| | 3 | +20 | 15 | $\Delta C/C$ | n/a | +0/-10% | $\pm 5\%$ | +10/-0% | +12/-0% | $\pm 5\%$ | |
| | 4 | +85 | 15 | DF | IL* | 1.5 x IL* | IL* | 1.5 x IL* | 2 x IL* | IL* | |
| | 5 | +125 | 15 | | | | | | | | |
| | 6 | +20 | 15 | ESR | 1.25xIL* | 2.5xIL* | 1.25xIL* | 1.25xIL* | 1.25xIL* | 1.25xIL* | |
| Surge Voltage | Apply 1.3x category voltage (Uc) at 125°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

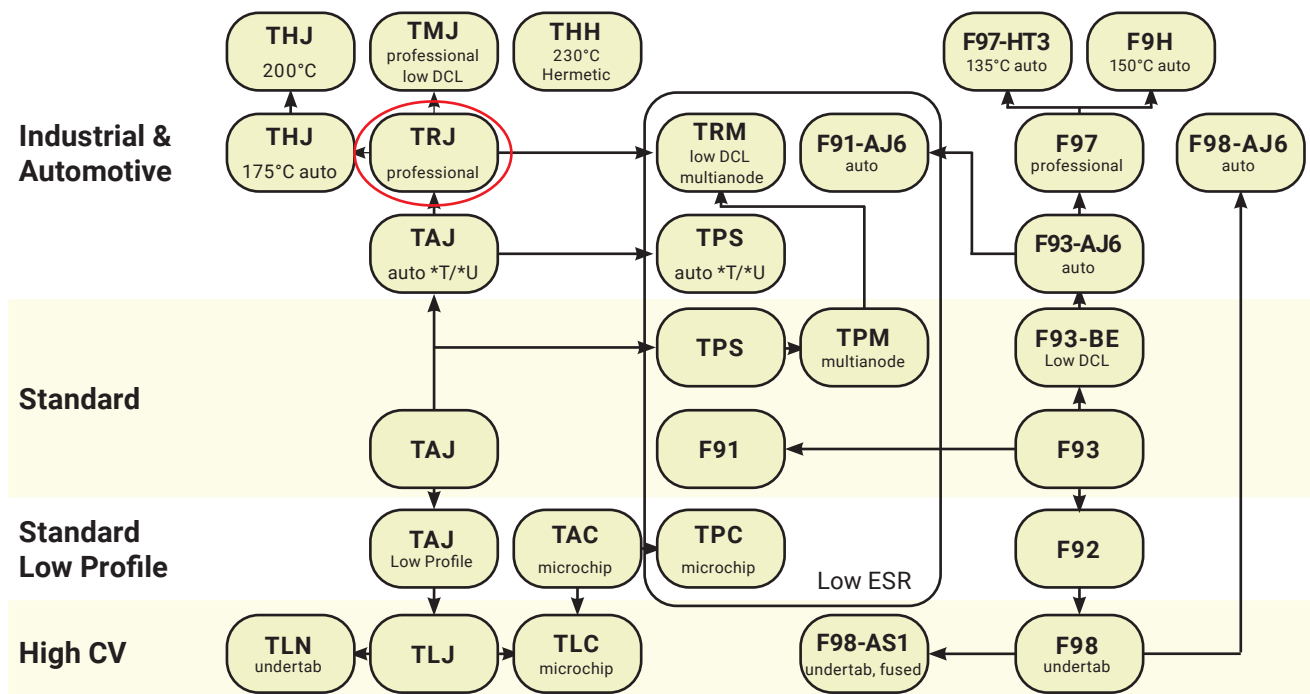
AVX SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



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