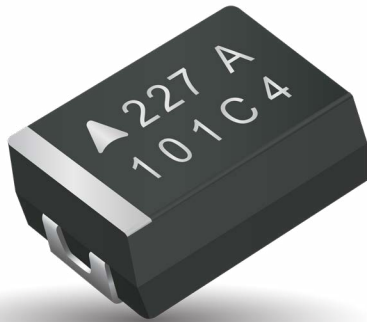


THJ Series

High Temperature Tantalum Chip Capacitor



FEATURES

- Improved Reliability – 2x Standard
- 175°C @ 0.5V_R Continuous Operation
- 100% Surge Current Tested
- CV Range: 0.10-220µF / 6.3-50V
- 5 Case Sizes Available
- Low ESR options on approval
- High Temperature Automotive and Industry Applications



LEAD-FREE

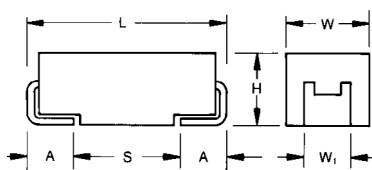
LEAD-FREE COMPATIBLE COMPONENT

RoHS COMPLIANT

SnPb termination option is not RoHS compliant.

APPLICATIONS

- Automotive ECU and ABS Control Electronics
- Geothermal Instrumentation



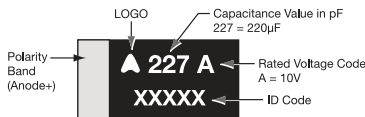
CASE DIMENSIONS:

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) |

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

MARKING A, B, C, D, E CASE



HOW TO ORDER

| THJ | B | 105 | * | 035 | R | JN | - |
|------|------------------------------|--|-----------------------------------|--|---|---|--|
| 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 006=6.3Vdc 010=10Vdc 016=16Vdc 020=20Vdc 025=25Vdc 035=35Vdc 050=50Vdc | Packaging R = Pure Tin 7" Reel S = Pure Tin 13" Reel A = Gold Plating 7" Reel B = Gold Plating 13" Reel H = Tin Lead 7" Reel K = Tin Lead 13" Reel H, K = Non RoHS A, B, H, K = Please Contact Manufacturer | Standard Suffix OR 0100 Low ESR in mΩ | Additional characters may be added for special requirements V = Dry pack Option |

TECHNICAL SPECIFICATIONS

| | | | | | | | | | |
|------------------------------------|---|-----|----|----|----|----|----|----|--|
| Technical Data: | All technical data relate to an ambient temperature of +25°C | | | | | | | | |
| Capacitance Range: | 0.10 µF to 220 µF | | | | | | | | |
| Capacitance Tolerance: | ±10%; ±20% | | | | | | | | |
| Rated Voltage (V _R) | ≤ +85°C: | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 | |
| Category Voltage (V _C) | ≤ +125°C: | 4 | 7 | 10 | 13 | 17 | 23 | 33 | |
| Category Voltage (V _C) | ≤ +175°C: | 3 | 5 | 8 | 10 | 12 | 17 | 25 | |
| Surge Voltage (V _S) | ≤ +85°C: | 8 | 13 | 20 | 26 | 32 | 46 | 65 | |
| Surge Voltage (V _S) | ≤ +125°C: | 5 | 8 | 13 | 16 | 20 | 28 | 40 | |
| Surge Voltage (V _S) | ≤ +175°C: | 4 | 6 | 10 | 12 | 15 | 21 | 30 | |
| Temperature Range: | -55°C to 175°C voltage derating. | | | | | | | | |
| Reliability: | 0.5% per 1000 hours at 85°C, V _R with 0.1Ω/V series impedance, 60% confidence level, 3.5 Fits at 40°C, 0.5V _R | | | | | | | | |
| Termination Finish: | Sn Plating (standard), Gold and SnPb Plating upon request Meets requirements of AEC-Q200 | | | | | | | | |

THJ Series

High Temperature Tantalum Chip Capacitor



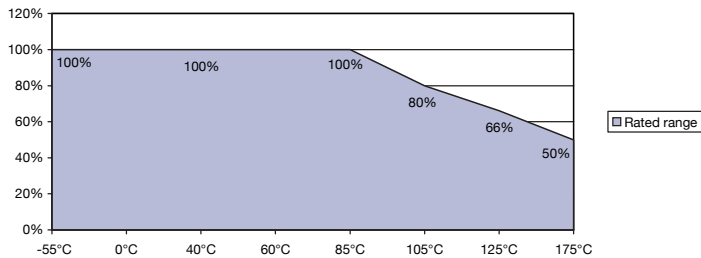
CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated voltage (V _R) to 85°C (Voltage Code) | | | | | | |
|-------------|------|--|---------|-----------|---------|-----------|----------|---------|
| μF | Code | 6.3V (J) | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 0.10 | 104 | | | | | | A | |
| 0.15 | 154 | | | | | | A | |
| 0.22 | 224 | | | | | | A | |
| 0.33 | 334 | | | | | | A | |
| 0.47 | 474 | | | | | A | B | |
| 0.68 | 684 | | | | | A | B | |
| 1.0 | 105 | | | | | A | A/B | |
| 1.5 | 155 | | | | A | | C | |
| 2.2 | 225 | | | A/A(1500) | | B/B(1500) | C | |
| 3.3 | 335 | | A | A | B | | C | D |
| 4.7 | 475 | A | A | A/B | | | C | D |
| 6.8 | 685 | A | A | A/B | | C | D | D |
| 10 | 106 | A | A/B | B | | C | D | D/E |
| 15 | 156 | B | B | B | C | | D | |
| 22 | 226 | B | B | C/C(500) | | D | D/D(300) | |
| 33 | 336 | B | C | C | D | D | E/E(150) | |
| 47 | 476 | C | C | C/D | | | | |
| 68 | 686 | C | D | D | | | | |
| 100 | 107 | D | D | E | | | | |
| 150 | 157 | D | | | | | | |
| 220 | 227 | | E | | | | | |

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.

THJ 175°C Voltage vs Temperature Rating



THJ Series

High Temperature Tantalum Chip Capacitor



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 (mA) | | | | MSL |
|------------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | 175°C | |
| 6.3 Volt @ 85°C | | | | | | | | | | | | | | |
| THJA475*006#JN | A | 4.7 | 6.3 | 85 | 3 | 175 | 0.5 | 6 | 6 | 112 | 101 | 45 | 22 | 1 |
| THJA685*006#JN | A | 6.8 | 6.3 | 85 | 3 | 175 | 0.5 | 4.5 | 2.6 | 170 | 153 | 68 | 34 | 1 |
| THJA106*006#JN | A | 10 | 6.3 | 85 | 3 | 175 | 0.6 | 4.5 | 2.2 | 185 | 166 | 74 | 37 | 1 |
| THJB156*006#JN | B | 15 | 6.3 | 85 | 3 | 175 | 0.9 | 6 | 2.5 | 184 | 166 | 74 | 37 | 1 |
| THJB226*006#JN | B | 22 | 6.3 | 85 | 3 | 175 | 1.4 | 6 | 2.5 | 184 | 166 | 74 | 37 | 1 |
| THJB336*006#JN | B | 33 | 6.3 | 85 | 3 | 175 | 2.1 | 6 | 2.2 | 197 | 177 | 79 | 39 | 1 |
| THJC476*006#JN | C | 47 | 6.3 | 85 | 3 | 175 | 3.0 | 6 | 1.6 | 262 | 236 | 105 | 52 | 1 |
| THJC686*006#JN | C | 68 | 6.3 | 85 | 3 | 175 | 4.3 | 6 | 1.5 | 271 | 244 | 108 | 54 | 1 |
| THJD107*006#JN | D | 100 | 6.3 | 85 | 3 | 175 | 6 | 4.5 | 0.4 | 612 | 551 | 245 | 122 | 1 ¹⁾ |
| THJD157*006#JN | D | 150 | 6.3 | 85 | 3 | 175 | 9.5 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| 10 Volt @ 85°C | | | | | | | | | | | | | | |
| THJA335*010#JN | A | 3.3 | 10 | 85 | 5 | 175 | 0.5 | 6 | 5.5 | 117 | 105 | 47 | 23 | 1 |
| THJA475*010#JN | A | 4.7 | 10 | 85 | 5 | 175 | 0.5 | 4.5 | 2.9 | 161 | 145 | 64 | 32 | 1 |
| THJA685*010#JN | A | 6.8 | 10 | 85 | 5 | 175 | 0.7 | 4.5 | 2.6 | 170 | 153 | 68 | 34 | 1 |
| THJA106*010#JN | A | 10 | 10 | 85 | 5 | 175 | 1 | 6 | 2.7 | 167 | 150 | 67 | 33 | 1 |
| THJB106*010#JN | B | 10 | 10 | 85 | 5 | 175 | 1 | 4.5 | 1.8 | 217 | 196 | 87 | 43 | 1 |
| THJB156*010#JN | B | 15 | 10 | 85 | 5 | 175 | 1.5 | 4.5 | 1.5 | 238 | 214 | 95 | 48 | 1 |
| THJB226*010#JN | B | 22 | 10 | 85 | 5 | 175 | 2.2 | 6 | 2.4 | 188 | 169 | 75 | 38 | 1 |
| THJC336*010#JN | C | 33 | 10 | 85 | 5 | 175 | 3.3 | 6 | 1.6 | 262 | 236 | 105 | 52 | 1 |
| THJC476*010#JN | C | 47 | 10 | 85 | 5 | 175 | 4.7 | 4.5 | 0.5 | 469 | 422 | 188 | 94 | 1 |
| THJD686*010#JN | D | 68 | 10 | 85 | 5 | 175 | 6.8 | 4.5 | 0.4 | 612 | 551 | 245 | 122 | 1 ¹⁾ |
| THJD107*010#JN | D | 100 | 10 | 85 | 5 | 175 | 10 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| THJE227*010#JN | E | 220 | 10 | 85 | 5 | 175 | 22 | 10 | 0.5 | 574 | 517 | 230 | 115 | 1 ¹⁾ |
| 16 Volt @ 85°C | | | | | | | | | | | | | | |
| THJA225*016#JN | A | 2.2 | 16 | 85 | 8 | 175 | 0.5 | 4.5 | 3 | 158 | 142 | 63 | 32 | 1 |
| THJA225*016#1500 | A | 2.2 | 16 | 85 | 8 | 175 | 0.5 | 4.5 | 1.5 | 224 | 201 | 89 | 45 | 1 |
| THJA335*016#JN | A | 3.3 | 16 | 85 | 8 | 175 | 0.5 | 6 | 5 | 122 | 110 | 49 | 24 | 1 |
| THJA475*016#JN | A | 4.7 | 16 | 85 | 8 | 175 | 0.8 | 4.5 | 2.9 | 161 | 145 | 64 | 32 | 1 |
| THJB475*016#JN | B | 4.7 | 16 | 85 | 8 | 175 | 0.8 | 6 | 3.5 | 156 | 140 | 62 | 31 | 1 |
| THJA685*016#JN | A | 6.8 | 16 | 85 | 8 | 175 | 1.1 | 6 | 3.5 | 146 | 132 | 59 | 29 | 1 |
| THJB685*016#JN | B | 6.8 | 16 | 85 | 8 | 175 | 1.1 | 6 | 2.5 | 184 | 166 | 74 | 37 | 1 |
| THJB106*016#JN | B | 10 | 16 | 85 | 8 | 175 | 1.6 | 4.5 | 2.8 | 174 | 157 | 70 | 35 | 1 |
| THJB156*016#JN | B | 15 | 16 | 85 | 8 | 175 | 2.4 | 6 | 2 | 206 | 186 | 82 | 41 | 1 |
| THJC226*016#JN | C | 22 | 16 | 85 | 8 | 175 | 3.5 | 6 | 1.6 | 262 | 236 | 105 | 52 | 1 |
| THJC226*016#0500 | C | 22 | 16 | 85 | 8 | 175 | 3.5 | 4.5 | 0.5 | 469 | 422 | 188 | 94 | 1 |
| THJC336*016#JN | C | 33 | 16 | 85 | 8 | 175 | 5.3 | 6 | 1.5 | 271 | 244 | 108 | 54 | 1 |
| THJC476*016#JN | C | 47 | 16 | 85 | 8 | 175 | 7.5 | 6 | 0.8 | 371 | 334 | 148 | 74 | 1 |
| THJD476*016#JN | D | 47 | 16 | 85 | 8 | 175 | 7.5 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| THJD686*016#JN | D | 68 | 16 | 85 | 8 | 175 | 10.9 | 4.5 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| THJE107*016#JN | E | 100 | 16 | 85 | 8 | 175 | 16 | 8 | 0.4 | 642 | 578 | 257 | 128 | 1 ¹⁾ |
| 20 Volt @ 85°C | | | | | | | | | | | | | | |
| THJA155*020#JN | A | 1.5 | 20 | 85 | 10 | 175 | 0.5 | 6 | 6.5 | 107 | 97 | 43 | 21 | 1 |
| THJB335*020#JN | B | 3.3 | 20 | 85 | 10 | 175 | 0.7 | 6 | 3 | 168 | 151 | 67 | 34 | 1 |
| THJC156*020#JN | C | 15 | 20 | 85 | 10 | 175 | 3.0 | 6 | 1.7 | 254 | 229 | 102 | 51 | 1 |
| THJD336*020#JN | D | 33 | 20 | 85 | 10 | 175 | 6.6 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| 25 Volt @ 85°C | | | | | | | | | | | | | | |
| THJA474*025#JN | A | 0.47 | 25 | 85 | 12 | 175 | 0.5 | 4 | 14 | 73 | 66 | 29 | 15 | 1 |
| THJA684*025#JN | A | 0.68 | 25 | 85 | 12 | 175 | 0.5 | 4 | 10 | 87 | 78 | 35 | 17 | 1 |
| THJA105*025#JN | A | 1.0 | 25 | 85 | 12 | 175 | 0.5 | 3 | 5.2 | 120 | 108 | 48 | 24 | 1 |
| THJB225*025#JN | B | 2.2 | 25 | 85 | 12 | 175 | 0.6 | 6 | 4.5 | 137 | 124 | 55 | 27 | 1 |
| THJB225*025#1500 | B | 2.2 | 25 | 85 | 12 | 175 | 0.6 | 6 | 1.5 | 238 | 214 | 95 | 48 | 1 |
| THJC685*025#JN | C | 6.8 | 25 | 85 | 12 | 175 | 1.7 | 6 | 2 | 235 | 211 | 94 | 47 | 1 |
| THJC106*025#JN | C | 10 | 25 | 85 | 12 | 175 | 2.5 | 6 | 1.8 | 247 | 222 | 99 | 49 | 1 |
| THJD226*025#JN | D | 22 | 25 | 85 | 12 | 175 | 5.5 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| THJD336*025#JN | D | 33 | 25 | 85 | 12 | 175 | 8.3 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| 35 Volt @ 85°C | | | | | | | | | | | | | | |
| THJA104*035#JN | A | 0.1 | 35 | 85 | 17 | 175 | 0.5 | 4 | 24 | 56 | 50 | 22 | 11 | 1 |
| THJA154*035#JN | A | 0.15 | 35 | 85 | 17 | 175 | 0.5 | 4 | 21 | 60 | 54 | 24 | 12 | 1 |
| THJA224*035#JN | A | 0.22 | 35 | 85 | 17 | 175 | 0.5 | 4 | 18 | 65 | 58 | 26 | 13 | 1 |
| THJA334*035#JN | A | 0.33 | 35 | 85 | 17 | 175 | 0.5 | 4 | 15 | 71 | 64 | 28 | 14 | 1 |
| THJB474*035#JN | B | 0.47 | 35 | 85 | 17 | 175 | 0.5 | 4 | 10 | 92 | 83 | 37 | 18 | 1 |
| THJB684*035#JN | B | 0.68 | 35 | 85 | 17 | 175 | 0.5 | 4 | 8 | 103 | 93 | 41 | 21 | 1 |
| THJA105*035#JN | A | 1.0 | 35 | 85 | 17 | 175 | 0.5 | 4 | 7.5 | 100 | 90 | 40 | 20 | 1 |
| THJB105*035#JN | B | 1.0 | 35 | 85 | 17 | 175 | 0.5 | 4 | 6.5 | 114 | 103 | 46 | 23 | 1 |
| THJC155*035#JN | C | 1.5 | 35 | 85 | 17 | 175 | 0.5 | 6 | 4.5 | 156 | 141 | 63 | 31 | 1 |
| THJC225*035#JN | C | 2.2 | 35 | 85 | 17 | 175 | 0.8 | 6 | 3.5 | 177 | 160 | 71 | 35 | 1 |
| THJC335*035#JN | C | 3.3 | 35 | 85 | 17 | 175 | 1.2 | 6 | 2.5 | 210 | 189 | 84 | 42 | 1 |
| THJC475*035#JN | C | 4.7 | 35 | 85 | 17 | 175 | 1.6 | 6 | 2.2 | 224 | 201 | 89 | 45 | 1 |
| THJD685*035#JN | D | 6.8 | 35 | 85 | 17 | 175 | 2.4 | 6 | 1.3 | 340 | 306 | 136 | 68 | 1 ¹⁾ |

THJ Series

High Temperature Tantalum Chip Capacitor



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 (mA) | | | | MSL |
|-----------------------|-----------|------------------|-------------------|------------------------|----------------------|---------------------------|---------------|-------------|-----------------------|-------------------------|------|-------|-------|-----------------|
| | | | | | | | | | | 25°C | 85°C | 125°C | 175°C | |
| THJD106*035#JN | D | 10 | 35 | 85 | 17 | 175 | 3.5 | 6 | 1 | 387 | 349 | 155 | 77 | 1 ¹⁾ |
| THJD156*035#JN | D | 15 | 35 | 85 | 17 | 175 | 5.3 | 6 | 0.9 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| THJD226*035#JN | D | 22 | 35 | 85 | 17 | 175 | 7.7 | 6 | 0.6 | 500 | 450 | 200 | 100 | 1 ¹⁾ |
| THJD226*035#0300 | D | 22 | 35 | 85 | 17 | 175 | 7.7 | 6 | 0.3 | 707 | 636 | 283 | 141 | 1 ¹⁾ |
| THJE336*035#JN | E | 33 | 35 | 85 | 17 | 175 | 11.6 | 6 | 0.5 | 574 | 517 | 230 | 115 | 1 ¹⁾ |
| THJE336*035#0150 | E | 33 | 35 | 85 | 17 | 175 | 11.6 | 6 | 0.15 | 1049 | 944 | 420 | 210 | 1 ¹⁾ |
| 50 Volt @ 85°C | | | | | | | | | | | | | | |
| THJD335*050#JN | D | 3.3 | 50 | 85 | 25 | 175 | 1.7 | 6 | 1.1 | 369 | 332 | 148 | 74 | 1 ¹⁾ |
| THJD475*050#JN | D | 4.7 | 50 | 85 | 25 | 175 | 2.4 | 6 | 0.9 | 463 | 417 | 185 | 93 | 1 ¹⁾ |
| THJD685*050#JN | D | 6.8 | 50 | 85 | 25 | 175 | 3.4 | 6 | 0.7 | 408 | 367 | 163 | 82 | 1 ¹⁾ |
| THJD106*050#JN | D | 10 | 50 | 85 | 25 | 175 | 5 | 6 | 0.7 | 463 | 417 | 185 | 93 | 1 ¹⁾ |
| THJE106*050#JN | E | 10 | 50 | 85 | 25 | 175 | 5 | 6 | 0.7 | 486 | 437 | 194 | 97 | 1 ¹⁾ |

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

All PNs also available with Dry pack option - MSL 3 (see How to order).

¹⁾ - Dry pack option (see How to order) is recommended for reduction of stress during soldering.

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 259.

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

THJ Series

High Temperature Tantalum Chip Capacitor



QUALIFICATION TABLE

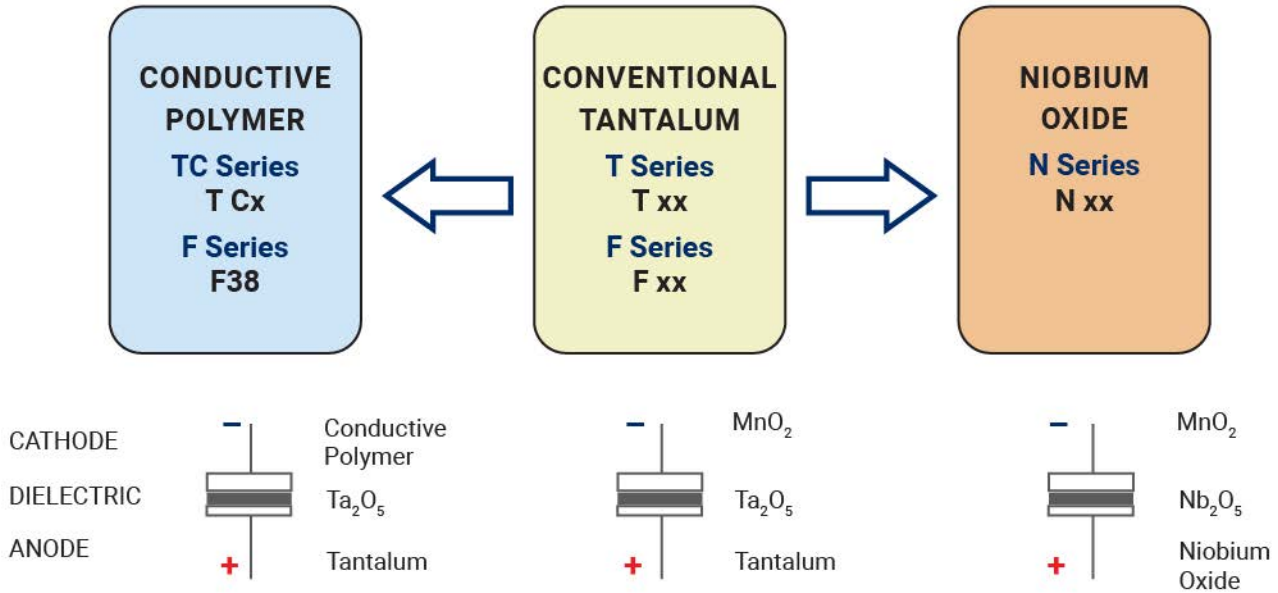
| TEST | THJ series (Temperature range -55°C to +175°C) | | | | | | | | | |
|------------------------------|---|---------------|---------------|--------------------|--|-------|-----------|-----------|------------|---------|
| | Condition | | | Characteristics | | | | | | |
| Endurance | Apply rated voltage (Ur) at 85°C and / or category voltage (Uc) at 175°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 175°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 | | | | | |
| 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 | +125°C | +175°C | +20°C |
| | 1 | +20 | 15 | DCL | IL* | n/a | IL* | 10 x IL* | 12.5 x IL* | IL* |
| | 2 | -55 | 15 | | $\Delta C/C$ | n/a | +0/-10% | $\pm 5\%$ | +10/-0% | +18/-0% |
| | 3 | +20 | 15 | DF | | IL* | 1.5 x IL* | IL* | 1.5 x IL* | 2 x IL* |
| | 4 | +125 | 15 | ESR | 1.25xIL* 2.5xIL* 1.25xIL* 1.25xIL* 1.25xIL* 1.25xIL* | | | | | |
| | 5 | +175 | 15 | | | | | | | |
| | 6 | +20 | 15 | | | | | | | |
| Surge Voltage | Apply 1.3x category voltage (Uc) at 175°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

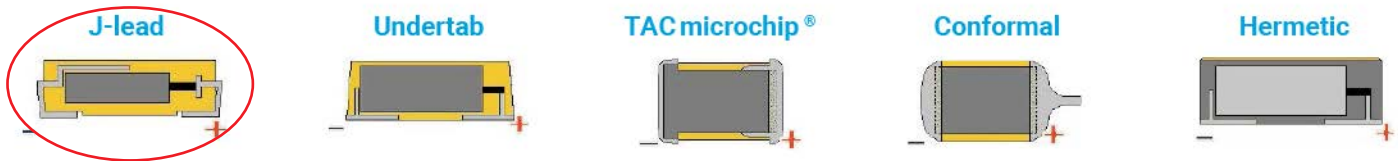
THJ Series

High Temperature Tantalum Chip Capacitor

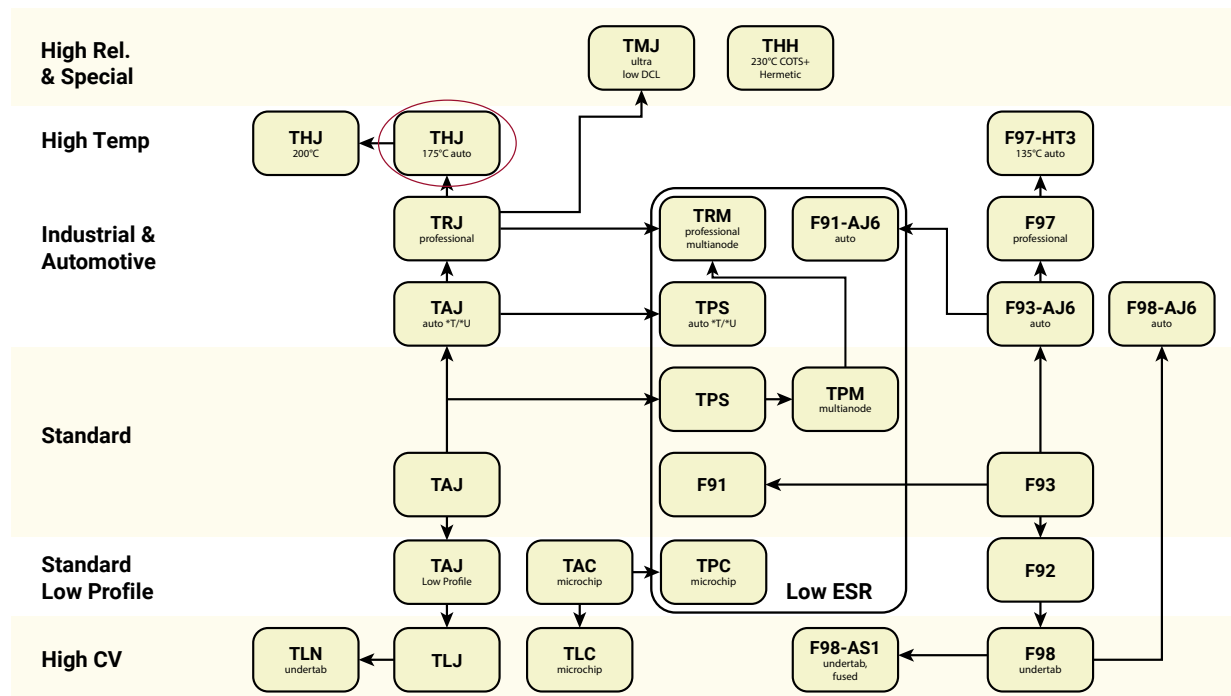
SOLID ELECTROLYTIC CAPACITOR ROADMAP



FIVE CAPACITOR CONSTRUCTION STYLES



SERIES LINE UP : CONVENTIONAL SMD MnO₂



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