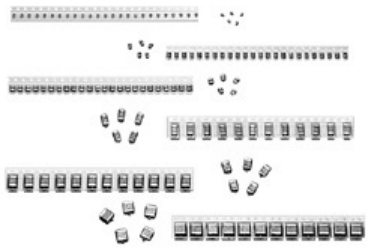
# Solid Tantalum Chip Capacitors
# TANTAMOUNT® Conformal Coated, Maximum CV



## FEATURES

- Large capacitance rating range
- Terminations: Tin (2) standard
- 8 mm, 12 mm tape and reel packaging available per EIA 481-1 and reeling per IEC 286-3. 7" [178 mm] standard. 13" [330 mm] available.
- Case code compatibility with EIA 535BAAC and CECC30801 molded chips

Pb-free Available

RoHS* COMPLIANT

## PERFORMANCE CHARACTERISTICS

**Operating Temperature:** - 55 °C to + 85 °C
(To + 125 °C with voltage derating)
**Note:** Refer to Doc. 40088

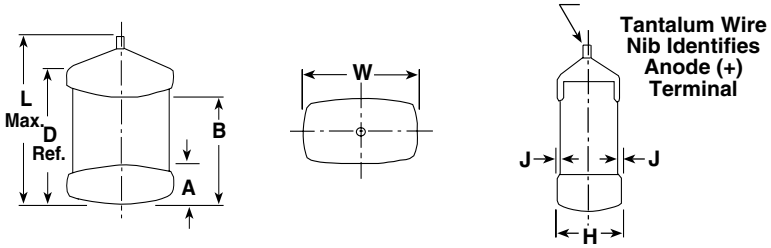
**Capacitance Range:** 0.1 µF to 1500 µF
**Capacitance Tolerance:** ± 10 %, ± 20 % standard
**Voltage Rating:** 4 WVDC to 50 WVDC

## ORDERING INFORMATION

| 595D | 106 | X0 | 010 | A | 2 | T |
|---|---|---|---|---|---|---|
| TYPE | CAPACITANCE | CAPACITANCE TOLERANCE | DC VOLTAGE RATING AT + 85 °C | CASE CODE | TERMINATION | PACKAGING |
| | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. | **X0 = ± 20 %**<br>X9 = ± 10 % | This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 volts). | See Ratings and Case Codes Table | **2 = 100 % Tin**<br>4 = Gold Plated<br>8 = Solder Plated (60/40) Special Order | **T = Tape and Reel 7" [178 mm] Reel**<br>W = 13" [330 mm] Reel<br>See Tape and Reel Specifications. |

**Note:** Preferred Tolerance and reel sizes are in bold.
We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size.
Voltage substitutions will be marked with the higher voltage rating.

## DIMENSIONS in inches [millimeters]




| CASE CODE | L (Max.) | W | H | A | B | D (REF.) | J (MAX.) |
|---|---|---|---|---|---|---|---|
| T | 0.087 [2.2] | 0.045 ± 0.012 [1.1 ± 0.3] | 0.045 ± 0.012 [1.1 ± 0.3] | 0.016 ± 0.008 [0.4 ± 0.2] | 0.042 ± 0.010 [1.07 ± 0.25] | 0.063 [1.6] | 0.004 [0.1] |
| S | 0.126 ± 0.008 [3.2 ± 0.2] | 0.067 ± 0.008 [1.7 ± 0.2] | 0.051 ± 0.008 [1.3 ± 0.2] | 0.031 ± 0.012 [0.80 ± 0.30] | 0.078 ± 0.012 [2.0 ± 0.3] | 0.086 [2.2] | 0.004 [0.1] |
| A | 0.146 [3.7] | 0.072 ± 0.012 [1.8 ± 0.3] | 0.056 ± 0.012 [1.4 ± 0.3] | 0.031 ± 0.012 [0.80 ± 0.30] | 0.085 ± 0.016 [2.2 ± 0.4] | 0.115 [2.9] | 0.004 [0.1] |
| B | 0.158 [4.0] | 0.110 + 0.012 - 0.016 [2.8 + 0.3 - 0.4] | 0.075 + 0.012 - 0.024 [1.9 + 0.3 - 0.6] | 0.031 ± 0.012 [0.80 ± 0.30] | 0.097 ± 0.016 [2.5 ± 0.4] | 0.138 [3.5] | 0.004 [0.1] |
| C | 0.281 [7.1] | 0.126 ± 0.012 [3.2 ± 0.3] | 0.098 ± 0.012 [2.5 ± 0.3] | 0.051 ± 0.012 [1.3 ± 0.30] | 0.180 ± 0.024 [4.6 ± 0.6] | 0.236 [6.0] | 0.004 [0.1] |
| G | 0.205 ± 0.016 [5.2 ± 0.4] | 0.144 ± 0.016 [3.65 ± 0.4] | 0.087 [2.2] Max. | 0.051 ± 0.012 [1.3 ± 0.3] | 0.133 ± 0.016 [3.4 ± 0.4] | 0.173 [4.4] | 0.004 [0.1] |
| H | 0.205 ± 0.016 [5.2 ± 0.4] | 0.181 ± 0.016 [4.6 ± 0.4] | 0.078 [2.0] Max | 0.051 ± 0.012 [1.3 ± 0.30] | 0.133 ± 0.016 [3.4 ± 0.4] | 0.173 [4.4] | 0.004 [0.1] |
| D | 0.293 [7.5] | 0.170 ± 0.012/- 0.024 [4.3 ± 0.3/- 0.6] | 0.110 ± 0.012 [2.8 ± 0.3] | 0.051 ± 0.012 [1.3 ± 0.30] | 0.180 ± 0.024 [4.6 ± 0.6] | 0.253 [6.4] | 0.004 [0.1] |
| M | 0.129 ± 0.012 [3.3 ± 0.3] | 0.106 ± 0.012 [2.7 ± 0.3] | 0.067 ± 0.012 [1.7 ± 0.3] | 0.031 ± 0.012 [0.80 ± 0.3] | 0.078 ± 0.012 [2.0 ± 0.3] | 0.095 [2.5] | 0.004 [0.1] |
| R | 0.283 [7.2] | 0.235 ± 0.012/- 0.024 [6.0 ± 0.3/- 0.6] | 0.136 ± 0.012 [3.5 ± 0.3] | 0.051 ± 0.012 [1.3 ± .30] | 0.180 ± 0.024 [4.6 ± 0.6] | 0.243 [6.2] | 0.004 [0.1] |

**Note:** The anode termination (D less B) will be a minimum of 0.010" (0.3 mm). T Case = 0.005" (0.13 mm) minimum.
* Pb containing terminations are not RoHS compliant, exemptions may apply

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## RATINGS AND CASE CODES

| µF | 4 V | 6.3 V | 10 V | 16 V | 20 V | 25 V | 35 V | 50 V |
|---|---|---|---|---|---|---|---|---|
| 0.10 | | | | | | | | T |
| 0.15 | | | | | | | | T |
| 0.22 | | | | | | | | T |
| 0.33 | | | | | | | T | A |
| 0.47 | | | | | | T | A | A |
| 0.68 | | | | | T | | A | A/B |
| 1.0 | | | | | T | A | A | A/B |
| 1.5 | | | | T | | A | A/B | C |
| 2.2 | | | T | T/A | A | A | B | B/C |
| 3.3 | | T | | T | A | B/C | C | C |
| 4.7 | T | | T | A | A/B | | B/C | C |
| 6.8 | | T | | A | A/B | B | C | C/D |
| 10 | T | | A | A/B | B | B/C | D | D/R |
| 15 | A | A | A/B | A/B | B | C | C/D | R |
| 22 | | A/B | A | B/M | B/C | C/D | D/R | R |
| 33 | A/B | S/A/B | A/B | B/C | | C/D | R | |
| 47 | A | A/B | B | B/C | C/D | D/R | R | |
| 68 | A | A/B | B/C | C/D | D | D/R | | |
| 100 | A/B | B/C/M | B/D | C/D | D/R | R | | |
| 120 | C | C | D | R | R | | | |
| 150 | B/C | | C/D | D/R | R | | | |
| 180 | D | D | D/R | R | | | | |
| 220 | C/D | C/D/G/H | C/D/R | R | | | | |
| 270 | C/D | | R | | | | | |
| 330 | C* | C/D/R | D/R | R | | | | |
| 390 | D | R | R | | | | | |
| 470 | C/R | D/R | R | | | | | |
| 560 | | R | | | | | | |
| 680 | D | R | R | | | | | |
| 1000 | R | R | | | | | | |
| 1500 | R | | | | | | | |

**Note:** * Preliminary values, contact factory for availability

## STANDARD/EXTENDED RATINGS

| CAPACITANCE (µF) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (µA) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz Irms (A) |
|---|---|---|---|---|---|---|
| 4 WVDC AT+ 85 °C, SURGE = 5.2 V . . . 2.7 WVDC AT + 125 °C, SURGE = 3.4 V | | | | | | |
| 4.7 | T | 595D475X_004T2T | 0.5 | 6 | 7.8 | 0.06 |
| 10 | T | 595D106X_004T2T | 0.5 | 6 | 7.8 | 0.06 |
| 15 | A | 595D156X_004A2T | 0.6 | 6 | 1.4 | 0.23 |
| 33 | A | 595D336X_004A2T | 1.3 | 6 | 1.4 | 0.23 |
| 33 | B | 595D336X_004B2T | 1.3 | 6 | 0.47 | 0.43 |
| 47 | A | 595D476X_004A2T | 1.9 | 6 | 1.40 | 0.23 |
| 68 | A | 595D686X_004A2T | 2.7 | 6 | 1.30 | 0.24 |
| 100 | A | 595D107X_004A2T | 4.0 | 12 | 0.60 | 0.35 |
| 100 | B | 595D107X_004B2T | 4.0 | 8 | 0.45 | 0.44 |
| 120 | C | 595D127X_004C2T | 4.8 | 8 | 0.19 | 0.76 |

**Note:** * Preliminary values, contact factory for availability. For 10 % tolerance, specify “9”; for 20 % tolerance, change to “0”.

## STANDARD/EXTENDED RATINGS

| CAPACITANCE (µF) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (µA) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz Irms (A) |
|---|---|---|---|---|---|---|
| **4 WVDC AT + 85 °C, SURGE = 5.2 V . . . 2.7 WVDC AT + 125 °C, SURGE = 3.4 V** | | | | | | |
| 150 | B | 595D157X_004B2T | 6.0 | 8 | 0.45 | 0.44 |
| 150 | C | 595D157X_004C2T | 6.0 | 8 | 0.18 | 0.78 |
| 180 | D | 595D187X_004D2T | 7.2 | 8 | 0.14 | 1.04 |
| 220 | C | 595D227X_004C2T | 8.8 | 8 | 0.18 | 0.78 |
| 220 | D | 595D227X_004D2T | 8.8 | 8 | 0.14 | 1.04 |
| 270 | C | 595D277X_004C2T | 10.8 | 8 | 0.17 | 0.80 |
| 270 | D | 595D277X_004D2T | 10.8 | 8 | 0.13 | 1.07 |
| 330* | C* | 595D337X_004C2T* | 13.2* | 8* | 0.17* | 0.80* |
| 390 | D | 595D397X_004D2T | 15.6 | 8 | 0.13 | 1.07 |
| 470 | C | 595D477X_004C2T | 18.8 | 10 | 0.16 | 0.83 |
| 470 | R | 595D477X_004R2T | 18.8 | 10 | 0.13 | 1.39 |
| 680 | D | 595D687X_004D2T | 27.2 | 12 | 0.13 | 1.07 |
| 1000 | R | 595D108X_004R2T | 40.0 | 16 | 0.07 | 1.88 |
| 1500 | R | 595D158X_004R2T | 60.0 | 20 | 0.07 | 1.88 |
| **6.3 WVDC AT + 85 °C, SURGE = 8 V . . . 4 WVDC AT + 125 °C, SURGE = 5 V** | | | | | | |
| 3.3 | T | 595D335X_6R3T2T | 0.5 | 6 | 8.5 | 0.06 |
| 6.8 | T | 595D685X_6R3T2T | 0.5 | 6 | 8.5 | 0.06 |
| 15 | A | 595D156X_6R3A2T | 0.9 | 6 | 1.7 | 0.20 |
| 22 | A | 595D226X_6R3A2T | 1.4 | 6 | 1.7 | 0.20 |
| 22 | B | 595D226X_6R3B2T | 1.4 | 6 | 0.57 | 0.37 |
| 33 | A | 595D336X_6R3A2T | 2.1 | 6 | 1.70 | 0.20 |
| 33 | B | 595D336X_6R3B2T | 1.7 | 5 | 0.57 | 0.39 |
| 33 | S | 595D336X_6R3S2T | 2.1 | 8 | 1.30 | 0.20 |
| 47 | A | 595D476X_6R3A2T | 2.8 | 6 | 1.50 | 0.22 |
| 47 | B | 595D336X_6R3B2T | 2.4 | 5 | 0.57 | 0.39 |
| 68 | A | 595D686X_6R3A2T | 4.3 | 12 | 0.5 | 0.19 |
| 68 | B | 595D686X_6R3B2T | 4.3 | 6 | 0.55 | 0.38 |
| 100 | B | 595D107X_6R3B2T | 6.3 | 8 | 0.55 | 0.39 |
| 100 | C | 595D107X_6R3C2T | 6.3 | 8 | 0.20 | 0.74 |
| 100 | M | 595D107X_6R3M2T | 6.3 | 14 | 0.40 | 0.49 |
| 120 | C | 595D127X_6R3C2T | 7.6 | 8 | 0.19 | 0.76 |
| 180 | D | 595D187X_6R3D2T | 11.3 | 8 | 0.14 | 1.04 |
| 220 | C | 595D227X_6R3C2T | 13.9 | 8 | 0.18 | 0.78 |
| 220 | D | 595D227X_6R3D2T | 13.9 | 8 | 0.14 | 1.04 |
| 220 | G | 595D227X_6R3G2T | 13.9 | 8 | 0.18 | 0.75 |
| 220 | H | 595D227X_6R3H2T | 13.9 | 8 | 0.18 | 0.75 |
| 330 | C | 595D337X_6R3C2T | 20.8 | 8 | 0.17 | 0.80 |
| 330 | C | 595D337X_6W3C2T | 20.8 | 8 | 0.17 | 0.80 |
| 330 | D | 595D337X_6R3D2T | 20.8 | 8 | 0.14 | 1.04 |
| 330 | R | 595D337X_6R3R2T | 20.8 | 8 | 0.13 | 1.39 |
| 390 | R | 595D397X_6R3R2T | 24.6 | 8 | 0.13 | 1.39 |
| 470 | D | 595D477X_6R3D2T | 29.6 | 8 | 0.13 | 1.07 |
| 470 | D | 595D477X_6W3D2T | 29.6 | 10 | 0.12 | 1.44 |
| 470 | R | 595D477X_6R3R2T | 29.6 | 10 | 0.12 | 1.44 |
| 560 | R | 595D567X_6R3R2T | 35.3 | 10 | 0.11 | 1.51 |
| 680 | R | 595D687X_6R3R2T | 42.8 | 10 | 0.09 | 1.66 |
| 680 | R | 595D687X_6W3R2T | 42.8 | 10 | 0.09 | 1.66 |
| 1000 | R | 595D108X_6R3R2T | 63.0 | 16 | 0.07 | 1.88 |
| 1000 | R | 595D108X_6W3R2T | 63.0 | 16 | 0.07 | 1.88 |

**Note:** * Preliminary values, contact factory for availability. For 10 % tolerance, specify “9”; for 20 % tolerance, change to “0”.

## STANDARD/EXTENDED RATINGS

| CAPACITANCE (µF) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (µA) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz Irms (A) |
|---|---|---|---|---|---|---|
| **10 WVDC AT + 85 °C, SURGE = 13 V . . . 7 WVDC AT + 125 °C, SURGE = 8 V** | | | | | | |
| 2.2 | T | 595D225X_010T2T | 0.5 | 6 | 8.6 | 0.06 |
| 4.7 | T | 595D475X_010T2T | 0.5 | 6 | 8.6 | 0.06 |
| 10 | A | 595D106X_010A2T | 1.0 | 6 | 1.9 | 0.19 |
| 15 | A | 595D156X_010A2T | 1.5 | 6 | 1.8 | 0.20 |
| 15 | B | 595D156X_010B2T | 1.5 | 6 | 0.67 | 0.35 |
| 22 | A | 595D226X_010A2T | 2.2 | 6 | 1.80 | 0.20 |
| 33 | A | 595D336X_010A2T | 3.3 | 8 | 3.0 | 0.16 |
| 33 | B | 595D336X_010B2T | 3.3 | 6 | 1.90 | 0.21 |
| 47 | B | 595D476X_010B2T | 4.7 | 6 | 0.65 | 0.35 |
| 68 | B | 595D686X_010B2T | 6.8 | 6 | 0.65 | 0.36 |
| 68 | C | 595D686X_010C2T | 6.8 | 6 | 0.24 | 0.68 |
| 100 | B | 595D107X_010B2T | 10.0 | 12 | 0.4 | 0.46 |
| 100 | D | 595D107X_010D2T | 8.0 | 7 | 0.15 | 1.00 |
| 120 | D | 595D127X_010D2T | 12.0 | 8 | 0.14 | 1.04 |
| 150 | C | 595D157X_010C2T | 15.0 | 8 | 0.22 | 0.71 |
| 150 | D | 595D157X_010D2T | 15.0 | 8 | 0.14 | 1.04 |
| 180 | D | 595D187X_010D2T | 18.0 | 8 | 0.38 | 0.63 |
| 180 | R | 595D187X_010R2T | 18.0 | 8 | 0.13 | 1.39 |
| 220 | C | 595D227X_010C2T | 22.0 | 8 | 0.20 | 0.74 |
| 220 | D | 595D227X_010D2T | 22.0 | 8 | 0.14 | 1.04 |
| 220 | R | 595D227X_010R2T | 22.0 | 8 | 0.13 | 1.39 |
| 270 | R | 595D277X_010R2T | 27.0 | 8 | 0.13 | 1.39 |
| 330 | D | 595D337X_010D2T | 33.0 | 8 | 0.14 | 1.04 |
| 330 | R | 595D337X_010R2T | 33.0 | 8 | 0.13 | 1.39 |
| 390 | R | 595D397X_010R2T | 39.0 | 8 | 0.12 | 1.44 |
| 470 | R | 595D477X_010R2T | 47.0 | 8 | 0.12 | 1.44 |
| 680 | R | 595D687X_010R2T | 68.0 | 14 | 0.09 | 1.66 |
| **16 WVDC AT + 85 °C, SURGE = 20 V . . . 10 WVDC AT + 125 °C, SURGE = 12 V** | | | | | | |
| 1.5 | T | 595D155X_016T2T | 0.5 | 6 | 8.7 | 0.06 |
| 2.2 | T | 595D225X_016T2T | 0.5 | 6 | 8.7 | 0.06 |
| 2.2 | A | 595D225X_010D2T | 0.4 | 5 | 3.9 | 0.14 |
| 3.3 | T | 595D335X_016T2T | 0.5 | 6 | 8.6 | 0.06 |
| 4.7 | A | 595D475X_016A2T | 0.8 | 6 | 2.9 | 0.16 |
| 6.8 | A | 595D685X_016A2T | 1.1 | 6 | 2.8 | 0.16 |
| 10 | A | 595D106X_016A2T | 1.6 | 6 | 2.5 | 0.17 |
| 10 | B | 595D106X_016B2T | 1.6 | 6 | 0.76 | 0.32 |
| 15 | A | 595D156X_016A2T | 2.4 | 6 | 2.40 | 0.17 |
| 15 | B | 595D156X_016B2T | 2.4 | 6 | 0.75 | 0.33 |
| 22 | B | 595D226X_016B2T | 3.5 | 6 | 0.75 | 0.32 |
| 22 | M | 595D226X_016M2T | 3.5 | 6 | 0.50 | 0.44 |
| 33 | B | 595D336X_016B2T | 5.3 | 6 | 0.72 | 0.33 |
| 33 | C | 595D336X_016C2T | 5.3 | 6 | 0.29 | 0.62 |
| 47 | B | 595D476X_016B2T | 7.5 | 6 | 0.72 | 0.33 |
| 47 | C | 595D476X_016C2T | 7.5 | 6 | 0.28 | 0.63 |
| 68 | C | 595D686X_016C2T | 10.9 | 6 | 0.26 | 0.64 |
| 68 | D | 595D686X_016D2T | 10.9 | 6 | 0.14 | 1.04 |
| 100 | C | 595D107X_016C2T | 16.0 | 8 | 0.27 | 0.64 |

**Note:** * Preliminary values, contact factory for availability. For 10 % tolerance, specify “9”; for 20 % tolerance, change to “0”.

## STANDARD/EXTENDED RATINGS

| CAPACITANCE (µF) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (µA) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz Irms (A) |
|---|---|---|---|---|---|---|
| **16 WVDC AT + 85 °C, SURGE = 20 V . . . 10 WVDC AT + 125 °C, SURGE = 12 V** | | | | | | |
| 100 | D | 595D107X_016D2T | 16.0 | 8 | 0.14 | 1.04 |
| 120 | R | 595D127X_016R2T | 19.2 | 8 | 0.14 | 1.34 |
| 150 | D | 595D157X_016D2T | 24.0 | 8 | 0.14 | 1.04 |
| 150 | R | 595D157X_016R2T | 24.0 | 8 | 0.13 | 1.39 |
| 180 | R | 595D187X_016R2T | 28.8 | 8 | 0.13 | 1.39 |
| 220 | R | 595D227X_016R2T | 35.2 | 8 | 0.12 | 1.44 |
| 330 | R | 595D337X_016R2T | 52.8 | 14 | 0.11 | 1.51 |
| **20 WVDC AT + 85 °C, SURGE = 26 V . . . 13 WVDC AT + 125 °C, SURGE = 16 V** | | | | | | |
| 0.68 | T | 595D684X_020T2T | 0.5 | 4 | 10.8 | 0.05 |
| 1.0 | T | 595D105X_020T2T | 0.5 | 4 | 9.0 | 0.06 |
| 2.2 | A | 595D225X_020A2T | 0.5 | 6 | 3.8 | 0.14 |
| 3.3 | A | 595D335X_020A2T | 0.7 | 6 | 3.8 | 0.14 |
| 4.7 | A | 595D475X_020A2T | 0.9 | 6 | 3.1 | 0.15 |
| 4.7 | B | 595D475X_020B2T | 0.9 | 6 | 0.95 | 0.29 |
| 6.8 | A | 595D685X_020A2T | 1.4 | 6 | 3.0 | 0.15 |
| 6.8 | B | 595D685X_020B2T | 1.4 | 6 | 0.95 | 0.29 |
| 10 | B | 595D106X_020B2T | 2.0 | 6 | 1.0 | 0.28 |
| 15 | B | 595D156X_020B2T | 3.0 | 6 | 1.0 | 0.28 |
| 22 | B | 595D226X_020B2T | 4.4 | 6 | 0.90 | 0.31 |
| 22 | C | 595D226X_020C2T | 4.4 | 6 | 0.38 | 0.54 |
| 47 | C | 595D476X_020C2T | 9.4 | 6 | 0.35 | 0.56 |
| 47 | D | 595D476X_020D2T | 9.4 | 6 | 0.19 | 0.89 |
| 68 | D | 595D686X_020D2T | 12.2 | 6 | 0.19 | 0.89 |
| 100 | D | 595D107X_020D2T | 20.0 | 8 | 0.18 | 0.91 |
| 100 | R | 595D107X_020R2T | 20.0 | 8 | 0.14 | 1.34 |
| 120 | R | 595D127X_020R2T | 24.0 | 8 | 0.14 | 1.34 |
| 150 | R | 595D157X_020R2T | 30.0 | 8 | 0.14 | 1.34 |
| **25 WVDC AT + 85 °C, SURGE = 32 V . . . 17 WVDC AT + 125 °C, SURGE = 20 V** | | | | | | |
| 0.47 | T | 595D474X_025T2T | 0.5 | 4 | 13.5 | 0.05 |
| 1 | A | 595D105X_025A2T | 0.4 | 4 | 4.2 | 0.13 |
| 1.5 | A | 595D155X_025A2T | 0.5 | 6 | 3.8 | 0.14 |
| 2.2 | A | 595D225X_025A2T | 0.6 | 6 | 3.8 | 0.14 |
| 3.3 | B | 595D335X_025B2T | 0.8 | 6 | 1.9 | 0.21 |
| 4.7 | C | 595D475X_025C2T | 1.3 | 5 | 0.68 | 0.40 |
| 6.8 | B | 595D685X_025B2T | 1.7 | 6 | 1.5 | 0.23 |
| 10 | B | 595D106X_025B2T | 2.5 | 6 | 1.5 | 0.23 |
| 10 | C | 595D106X_025C2T | 2.5 | 6 | 0.57 | 0.44 |
| 15 | C | 595D156X_025C2T | 3.8 | 6 | 0.56 | 0.44 |
| 22 | C | 595D226X_025C2T | 5.5 | 6 | 0.50 | 0.47 |
| 22 | D | 595D226X_025D2T | 5.5 | 6 | 0.28 | 0.73 |
| 33 | C | 595D336X_025C2T | 8.3 | 6 | 0.45 | 0.49 |
| 33 | D | 595D336X_025D2T | 8.3 | 6 | 0.27 | 0.75 |
| 47 | D | 595D476X_025D2T | 11.8 | 6 | 0.26 | 0.76 |
| 47 | R | 595D476X_025R2T | 11.8 | 6 | 0.20 | 1.12 |
| 68 | D | 595D686X_025D2T | 17.0 | 8 | 0.26 | 0.76 |
| 68 | R | 595D686X_025R2T | 17.0 | 6 | 0.20 | 1.12 |
| 100 | R | 595D107X_025R2T | 25.0 | 8 | 0.20 | 1.12 |

**Note:** * Preliminary values, contact factory for availability. For 10 % tolerance, specify “9”; for 20 % tolerance, change to “0”.

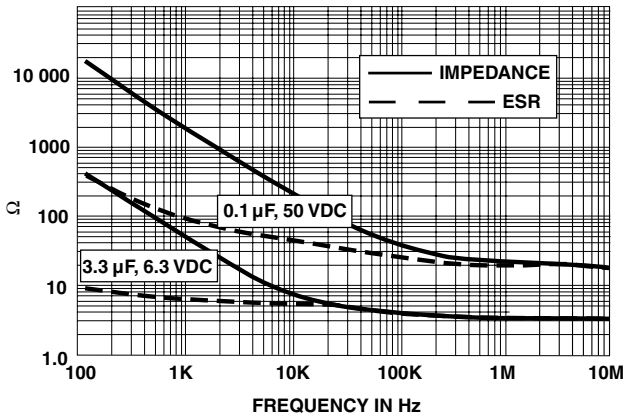
Solid Tantalum Chip Capacitors
TANTAMOUNT® Conformal Coated,
Maximum CV

## STANDARD/EXTENDED RATINGS

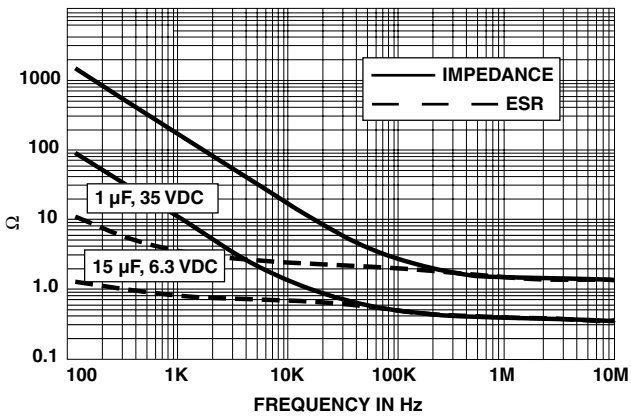
| CAPACITANCE (µF) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (µA) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz Irms (A) |
|---|---|---|---|---|---|---|
| **35 WVDC AT + 85 °C, SURGE = 46 V . . . 23 WVDC AT + 125 °C, SURGE = 28 V** | | | | | | |
| 0.33 | T | 595D334X_035T2T | 0.5 | 4 | 14.4 | 0.05 |
| 0.47 | A | 595D474X_035A2T | 0.5 | 4 | 4.3 | 0.13 |
| 0.68 | A | 595D684X_035A2T | 0.5 | 4 | 4.2 | 0.13 |
| 1.0 | A | 595D105X_035A2T | 0.5 | 4 | 4.1 | 0.13 |
| 1.5 | A | 595D155X_035A2T | 0.5 | 6 | 3.8 | 0.14 |
| 1.5 | B | 595D155X_035B2T | 0.5 | 6 | 2.8 | 0.17 |
| 2.2 | B | 595D225X_035B2T | 0.8 | 6 | 2.3 | 0.19 |
| 3.3 | C | 595D335X_035C2T | 1.2 | 6 | 0.75 | 0.38 |
| 4.7 | B | 595D475X_035B2T | 1.6 | 6 | 2.2 | 0.19 |
| 4.7 | C | 595D475X_035C2T | 1.6 | 6 | 0.66 | 0.41 |
| 6.8 | C | 595D685X_035C2T | 2.4 | 6 | 0.63 | 0.42 |
| 10 | D | 595D106X_035D2T | 3.5 | 6 | 0.43 | 0.59 |
| 15 | C | 595D156X_035C2T | 5.3 | 6 | 0.60 | 0.43 |
| 15 | D | 595D156X_035D2T | 5.3 | 6 | 0.41 | 0.60 |
| 22 | D | 595D226X_035D2T | 7.7 | 6 | 0.32 | 0.68 |
| 22 | R | 595D226X_035R2T | 7.7 | 6 | 0.28 | 0.94 |
| 33 | R | 595D336X_035R2T | 11.6 | 6 | 0.28 | 0.94 |
| 47 | R | 595D476X_035R2T | 16.5 | 6 | 0.28 | 0.94 |
| **50 WVDC AT + 85 °C, SURGE = 65 V . . . 33 WVDC AT + 125 °C, SURGE = 38 V** | | | | | | |
| 0.10 | T | 595D104X_050T2T | 0.5 | 4 | 22.5 | 0.04 |
| 0.15 | T | 595D154X_050T2T | 0.5 | 4 | 18.0 | 0.04 |
| 0.22 | T | 595D224X_050T2T | 0.5 | 4 | 15.3 | 0.04 |
| 0.33 | A | 595D334X_050A2T | 0.5 | 4 | 8.1 | 0.09 |
| 0.47 | A | 595D474X_050A2T | 0.5 | 4 | 7.2 | 0.10 |
| 0.68 | A | 595D684X_050A2T | 0.5 | 4 | 6.1 | 0.11 |
| 0.68 | B | 595D684X_050B2T | 0.5 | 4 | 5.4 | 0.12 |
| 1.0 | A | 595D105X_050A2T | 0.5 | 4 | 6.0 | 0.11 |
| 1.0 | B | 595D105X_050B2T | 0.5 | 4 | 5.0 | 0.13 |
| 1.5 | C | 595D155X_050C2T | 0.8 | 6 | 1.8 | 0.25 |
| 2.2 | B | 595D225X_050B2T | 1.1 | 6 | 3.2 | 0.16 |
| 2.2 | C | 595D225X_050C2T | 1.1 | 6 | 1.7 | 0.25 |
| 3.3 | C | 595D335X_050C2T | 1.7 | 6 | 1.6 | 0.26 |
| 4.7 | C | 595D475X_050C2T | 2.4 | 6 | 1.4 | 0.28 |
| 6.8 | C | 595D685X_050C2T | 3.4 | 6 | 1.3 | 0.29 |
| 6.8 | D | 595D685X_050D2T | 3.4 | 6 | 0.82 | 0.43 |
| 10 | D | 595D106X_050D2T | 5.0 | 6 | 0.80 | 0.43 |
| 10 | R | 595D106X_050R2T | 5.0 | 6 | 0.65 | 0.62 |
| 15 | R | 595D156X_050R2T | 7.5 | 6 | 0.40 | 0.79 |
| 22 | R | 595D226X_050R2T | 11.0 | 6 | 0.39 | 0.80 |

## TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS. FREQUENCY

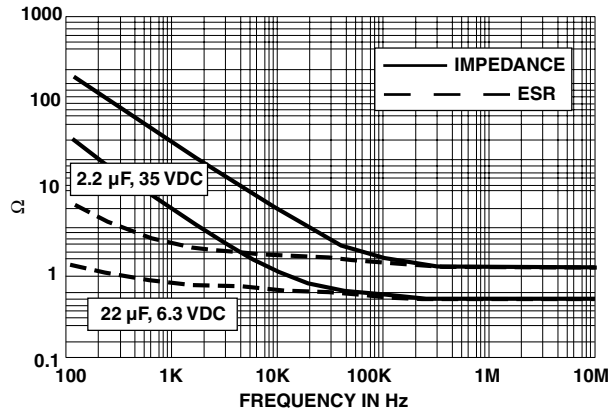
"T" Case



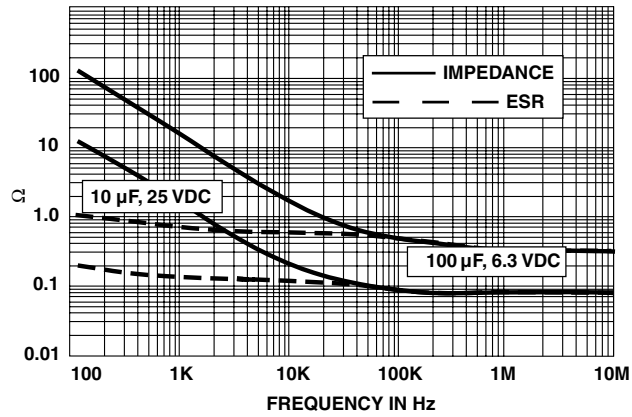

"A" Case



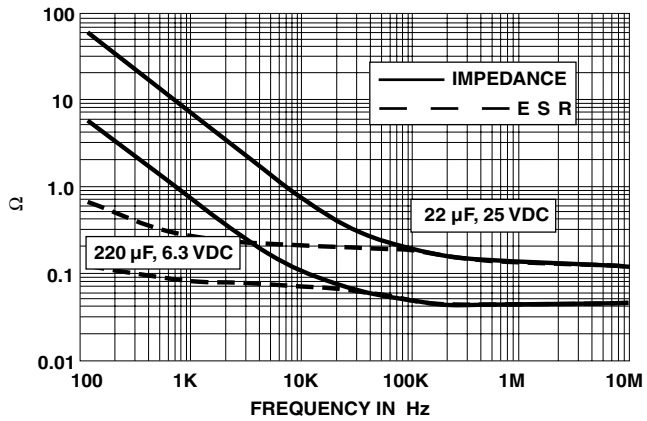

"B" Case



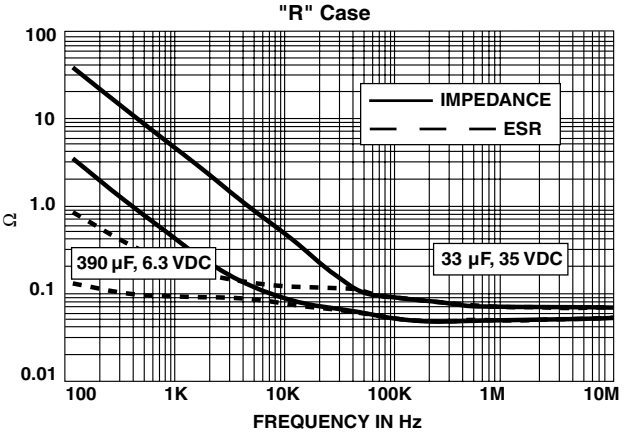

"C" Case




"D" Case




"R" Case



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