

Solid Tantalum Chip Capacitors, TANTAMOUNT[®], Conformal Coated, Maximum CV, Low ESR



FEATURES

- Large capacitance rating range
- Mounting: Surface mount
- Lowest ESR for a surface mount tantalum chip capacitor
- Terminations: 100 % tin (2) standard; tin/lead available
- 8 mm, 12 mm tape and reel packaging available per EIA 481 and reeling per IEC 60286-3. 7" [178 mm] standard. 13" [330 mm] available.
- Case code compatibility with EIA 535BAAC and CECC 30801
- Material categorization: For definitions please see www.vishay.com/doc?99912


RoHS*
COMPLIANT

Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

PERFORMANCE CHARACTERISTICS

www.vishay.com/doc?40088

Operating Temperature: - 55 °C to + 125 °C
(above 85 °C, voltage derating is required)

Capacitance Range: 1.0 µF to 1500 µF

Capacitance Tolerance: ± 10 %, ± 20 % standard

Voltage Rating: 4 V_{DC} to 50 V_{DC}

Equivalent Series Resistance: ESR readings measured at 100 kHz, + 25 °C from 3500 mΩ to 30 mΩ

ORDERING INFORMATION

| 594D | 477 | X0 | 004 | R | 2 | T |
|------|--|--|--|---------------------------------|---|---|
| TYPE | CAPACITANCE | CAPACITANCE TOLERANCE | DC VOLTAGE RATING AT + 85 °C | CASE CODE | TERMINATION | REEL SIZE AND PACKAGING |
| | This is expressed in pF. The first two digits are the significant figures. The third is the number of zeros to follow. | X0 = ± 20 % X9 = ± 10 % | This is expressed in V. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V). | See Ratings and Case Code table | 2 = 100 % tin 4 = Gold plated 8 = Solder plated (60/40) Special order | Tape and reel T = 7" [178 mm] reel W = 13" [330 mm] reel |

Note

- Preferred tolerances 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.

DIMENSIONS in inches [millimeters]

| CASE CODE | L _{MAX.} | W | H | A | B | D _{REF.} | J _{MAX.} |
|-----------|-------------------|--|--|------------------------------|------------------------------|-------------------|-------------------|
| B | 0.157 [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 [0.8 ± 0.3] | 0.098 ± 0.016 [2.5 ± 0.4] | 0.138 [3.5] | 0.004 [0.1] |
| C | 0.280 [7.1] | 0.126 ± 0.012 [3.2 ± 0.3] | 0.098 ± 0.012 [2.5 ± 0.3] | 0.051 ± 0.012 [1.3 ± 0.3] | 0.181 ± 0.024 [4.6 ± 0.6] | 0.236 [6.0] | 0.004 [0.1] |
| D | 0.295 [7.5] | 0.169 + 0.012/- 0.024 [4.3 + 0.3/- 0.6] | 0.110 ± 0.012 [2.8 ± 0.3] | 0.051 ± 0.012 [1.3 ± 0.3] | 0.181 ± 0.024 [4.6 ± 0.6] | 0.252 [6.4] | 0.004 [0.1] |
| R | 0.283 [7.2] | 0.236 + 0.012/- 0.024 [6.0 + 0.3/- 0.6] | 0.138 + 0.012/- 0.016 [3.5 + 0.3/- 0.4] | 0.051 ± 0.012 [1.3 ± 0.3] | 0.181 ± 0.024 [4.6 ± 0.6] | 0.244 [6.2] | 0.004 [0.1] |

Note

- The anode termination (D less B) will be a minimum of 0.012" [0.3 mm]



| RATINGS AND CASE CODES | | | | | | | | |
|------------------------|-----|-------|-------|------|------|------|------|------|
| μF | 4 V | 6.3 V | 10 V | 16 V | 20 V | 25 V | 35 V | 50 V |
| 1.0 | | | | | | | | B |
| 2.2 | | | | | | | B | |
| 3.3 | | | | | | B | | |
| 4.7 | | | | | B | | B | C |
| 6.8 | | | | | B | | C | C/D |
| 10 | | | | | B | B | | |
| 15 | | | B | B | | C | C/D | R |
| 22 | | B | B | B | B/C | C | D/R | |
| 33 | B | | B | B/C | | D | R | |
| 47 | | | B | B/C | C/D | D/R | R | |
| 68 | | B | B/C | C/D | D | D/R | | |
| 100 | B | B | B/C | C/D | D | R | | |
| 120 | | C | C | R | R | | | |
| 150 | B/C | | C/D | D | D | | | |
| 180 | | | D | R | | | | |
| 220 | | C/D | C/D/R | R | | | | |
| 270 | D | | | | | | | |
| 330 | C | C/D | D/R | R | | | | |
| 390 | | R | | | | | | |
| 470 | C/R | D/R | R | | | | | |
| 680 | D | R | R | | | | | |
| 1000 | | R | | | | | | |
| 1500 | R | | | | | | | |

| STANDARD 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 I _{RMS} (A) |
| 4 V_{DC} AT + 85 °C, 2.7 V_{DC} AT + 125 °C | | | | | | |
| 33 | B | 594D336(1)004B(2)(3) | 1.30 | 6 | 0.380 | 0.47 |
| 100 | B | 594D107(1)004B(2)(3) | 4.00 | 8 | 0.300 | 0.53 |
| 150 | B | 594D157(1)004B(2)(3) | 6.00 | 8 | 0.250 | 0.58 |
| 150 | C | 594D157(1)004C(2)(3) | 6.00 | 8 | 0.080 | 1.17 |
| 270 | D | 594D277(1)004D(2)(3) | 10.80 | 8 | 0.060 | 1.58 |
| 330 | C | 594D337(1)004C(2)(3) | 13.20 | 8 | 0.080 | 1.17 |
| 470 | C | 594D477(1)004C(2)(3) | 18.80 | 10 | 0.075 | 1.21 |
| 470 | R | 594D477(1)004R(2)(3) | 18.80 | 10 | 0.045 | 2.36 |
| 680 | D | 594D687(1)004D(2)(3) | 27.20 | 12 | 0.060 | 1.58 |
| 1500 | R | 594D158(1)004R(2)(3) | 60.00 | 20 | 0.030 | 2.89 |
| 6.3 V_{DC} AT + 85 °C, 4 V_{DC} AT + 125 °C | | | | | | |
| 22 | B | 594D226(1)6R3B(2)(3) | 1.40 | 6 | 0.380 | 0.47 |
| 68 | B | 594D686(1)6R3B(2)(3) | 4.30 | 6 | 0.319 | 0.52 |
| 100 | B | 594D107(1)6R3B(2)(3) | 6.30 | 8 | 0.250 | 0.58 |

Note

- Part number definitions:
 - Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - Packaging code: For 7" reels specify "T", for 13" reels specify "W".



| STANDARD RATINGS | | | | | | |
|--|-----------|----------------------|--------------------------------------|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (μ A) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz I_{RMS} (A) |
| 6.3 V_{DC} AT + 85 °C, 4 V_{DC} AT + 125 °C | | | | | | |
| 120 | C | 594D127(1)6R3C(2)(3) | 7.60 | 8 | 0.085 | 1.14 |
| 220 | C | 594D227(1)6R3C(2)(3) | 13.90 | 8 | 0.080 | 1.17 |
| 220 | D | 594D227(1)6R3D(2)(3) | 13.90 | 8 | 0.065 | 1.52 |
| 330 | C | 594D337(1)6R3C(2)(3) | 20.80 | 8 | 0.080 | 1.17 |
| 330 | D | 594D337(1)6R3D(2)(3) | 20.80 | 8 | 0.060 | 1.58 |
| 390 | R | 594D397(1)6R3R(2)(3) | 24.60 | 8 | 0.045 | 2.36 |
| 470 | D | 594D477(1)6R3D(2)(3) | 29.60 | 8 | 0.060 | 1.58 |
| 470 | R | 594D477(1)6R3R(2)(3) | 29.60 | 10 | 0.050 | 2.24 |
| 680 | R | 594D687(1)6R3R(2)(3) | 42.80 | 10 | 0.045 | 2.36 |
| 1000 | R | 594D108(1)6R3R(2)(3) | 63.00 | 16 | 0.030 | 2.89 |
| 10 V_{DC} AT + 85 °C, 7 V_{DC} AT + 125 °C | | | | | | |
| 15 | B | 594D156(1)010B(2)(3) | 1.50 | 6 | 0.500 | 0.41 |
| 22 | B | 594D226(1)010B(2)(3) | 2.20 | 6 | 0.500 | 0.41 |
| 33 | B | 594D336(1)010B(2)(3) | 3.30 | 6 | 0.500 | 0.41 |
| 47 | B | 594D476(1)010B(2)(3) | 4.70 | 6 | 0.400 | 0.46 |
| 68 | B | 594D686(1)010B(2)(3) | 6.80 | 6 | 0.350 | 0.49 |
| 68 | C | 594D686(1)010C(2)(3) | 6.80 | 6 | 0.100 | 1.05 |
| 100 | B | 594D107(1)010B(2)(3) | 10.00 | 12 | 0.250 | 0.58 |
| 100 | C | 594D107(1)010C(2)(3) | 10.00 | 8.0 | 0.095 | 1.08 |
| 120 | C | 594D127(1)010C(2)(3) | 12.00 | 7.0 | 0.095 | 1.08 |
| 150 | C | 594D157(1)010C(2)(3) | 15.00 | 8.0 | 0.090 | 1.11 |
| 150 | D | 594D157(1)010D(2)(3) | 15.00 | 8 | 0.075 | 1.41 |
| 180 | D | 594D187(1)010D(2)(3) | 18.00 | 7 | 0.090 | 1.29 |
| 220 | C | 594D227(1)010C(2)(3) | 22.00 | 8 | 0.100 | 1.05 |
| 220 | D | 594D227(1)010D(2)(3) | 22.00 | 8 | 0.065 | 1.52 |
| 220 | R | 594D227(1)010R(2)(3) | 22.00 | 8 | 0.065 | 1.96 |
| 330 | D | 594D337(1)010D(2)(3) | 33.00 | 8 | 0.065 | 1.52 |
| 330 | R | 594D337(1)010R(2)(3) | 33.00 | 8 | 0.045 | 2.36 |
| 470 | R | 594D477(1)010R(2)(3) | 47.00 | 8 | 0.045 | 2.36 |
| 680 | R | 594D687(1)010R(2)(3) | 68.00 | 14 | 0.045 | 2.36 |
| 16 V_{DC} AT + 85 °C, 10 V_{DC} AT + 125 °C | | | | | | |
| 15 | B | 594D156(1)016B(2)(3) | 2.40 | 6 | 0.550 | 0.39 |
| 22 | B | 594D226(1)016B(2)(3) | 3.50 | 6 | 0.500 | 0.41 |
| 33 | B | 594D336(1)016B(2)(3) | 5.30 | 6 | 0.500 | 0.41 |
| 33 | C | 594D336(1)016C(2)(3) | 5.30 | 6 | 0.150 | 0.86 |
| 47 | B | 594D476(1)016B(2)(3) | 7.50 | 6 | 0.720 | 0.34 |
| 47 | C | 594D476(1)016C(2)(3) | 7.50 | 6 | 0.110 | 1.00 |
| 68 | C | 594D686(1)016C(2)(3) | 10.90 | 6 | 0.123 | 0.95 |
| 68 | D | 594D686(1)016D(2)(3) | 10.90 | 6 | 0.095 | 1.26 |
| 100 | C | 594D107(1)016C(2)(3) | 16.00 | 8 | 0.080 | 1.17 |
| 100 | D | 594D107(1)016D(2)(3) | 16.00 | 8 | 0.075 | 1.41 |
| 120 | R | 594D127(1)016R(2)(3) | 19.20 | 8 | 0.080 | 1.77 |
| 150 | D | 594D157(1)016D(2)(3) | 24.00 | 8 | 0.085 | 1.33 |
| 180 | R | 594D187(1)016R(2)(3) | 28.80 | 8 | 0.055 | 2.13 |
| 220 | R | 594D227(1)016R(2)(3) | 35.20 | 8 | 0.055 | 2.13 |
| 330 | R | 594D337(1)016R(2)(3) | 52.80 | 14 | 0.055 | 2.13 |

Note

- Part number definitions:
 - Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - Packaging code: For 7" reels specify "T", for 13" reels specify "W".



| STANDARD RATINGS | | | | | | |
|--|-----------|----------------------|--------------------------------------|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DCL AT + 25 °C (μ A) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz I_{RMS} (A) |
| 20 V_{DC} AT + 85 °C, 13 V_{DC} AT + 125 °C | | | | | | |
| 4.7 | B | 594D475(1)020B(2)(3) | 0.90 | 6 | 0.900 | 0.31 |
| 6.8 | B | 594D685(1)020B(2)(3) | 1.40 | 6 | 0.900 | 0.31 |
| 10 | B | 594D106(1)020B(2)(3) | 2.00 | 6 | 0.850 | 0.32 |
| 22 | B | 594D226(1)020B(2)(3) | 4.40 | 6 | 0.600 | 0.38 |
| 22 | C | 594D226(1)020C(2)(3) | 4.40 | 6 | 0.150 | 0.86 |
| 47 | C | 594D476(1)020C(2)(3) | 9.40 | 6 | 0.140 | 0.89 |
| 47 | D | 594D476(1)020D(2)(3) | 9.40 | 6 | 0.095 | 1.26 |
| 68 | D | 594D686(1)020D(2)(3) | 13.60 | 6 | 0.132 | 1.07 |
| 100 | D | 594D107(1)020D(2)(3) | 20.00 | 8 | 0.085 | 1.33 |
| 120 | R | 594D127(1)020R(2)(3) | 24.00 | 8 | 0.080 | 1.77 |
| 150 | D | 594D157(1)020D(2)(3) | 30.00 | 12 | 0.100 | 1.22 |
| 25 V_{DC} AT + 85 °C, 17 V_{DC} AT + 125 °C | | | | | | |
| 3.3 | B | 594D335(1)025B(2)(3) | 0.80 | 6 | 1.500 | 0.24 |
| 10 | B | 594D106(1)025B(2)(3) | 2.50 | 6 | 0.900 | 0.31 |
| 15 | C | 594D156(1)025C(2)(3) | 3.80 | 6 | 0.220 | 0.71 |
| 22 | C | 594D226(1)025C(2)(3) | 5.50 | 6 | 0.200 | 0.74 |
| 33 | D | 594D336(1)025D(2)(3) | 8.30 | 6 | 0.130 | 1.07 |
| 47 | D | 594D476(1)025D(2)(3) | 11.80 | 6 | 0.130 | 1.07 |
| 47 | R | 594D476(1)025R(2)(3) | 11.80 | 6 | 0.099 | 1.59 |
| 68 | D | 594D686(1)025D(2)(3) | 17.00 | 8 | 0.200 | 0.87 |
| 68 | R | 594D686(1)025R(2)(3) | 17.00 | 6 | 0.095 | 1.62 |
| 100 | R | 594D107(1)025R(2)(3) | 25.00 | 8 | 0.090 | 1.67 |
| 35 V_{DC} AT + 85 °C, 23 V_{DC} AT + 125 °C | | | | | | |
| 2.2 | B | 594D225(1)035B(2)(3) | 0.80 | 6 | 1.700 | 0.22 |
| 4.7 | B | 594D475(1)035B(2)(3) | 1.60 | 6 | 1.400 | 0.25 |
| 6.8 | C | 594D685(1)035C(2)(3) | 2.40 | 6 | 0.430 | 0.51 |
| 15 | C | 594D156(1)035C(2)(3) | 5.30 | 6 | 0.400 | 0.52 |
| 15 | D | 594D156(1)035D(2)(3) | 5.30 | 6 | 0.270 | 0.75 |
| 22 | D | 594D226(1)035D(2)(3) | 7.70 | 6 | 0.270 | 0.75 |
| 22 | R | 594D226(1)035R(2)(3) | 7.70 | 6 | 0.220 | 1.07 |
| 33 | R | 594D336(1)035R(2)(3) | 11.60 | 6 | 0.200 | 1.12 |
| 47 | R | 594D476(1)035R(2)(3) | 16.60 | 6 | 0.200 | 1.12 |
| 50 V_{DC} AT + 85 °C, 33 V_{DC} AT + 125 °C | | | | | | |
| 1.0 | B | 594D105(1)050B(2)(3) | 0.50 | 4 | 3.500 | 0.16 |
| 4.7 | C | 594D475(1)050C(2)(3) | 2.40 | 6 | 0.800 | 0.37 |
| 6.8 | C | 594D685(1)050C(2)(3) | 3.40 | 6 | 0.800 | 0.37 |
| 6.8 | D | 594D685(1)050D(2)(3) | 3.40 | 6 | 0.450 | 0.58 |
| 15 | R | 594D156(1)050R(2)(3) | 7.50 | 6 | 0.350 | 0.85 |

Note

- Part number definitions:
 - Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - Packaging code: For 7" reels specify "T", for 13" reels specify "W".



| RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperature below + 85 °C) | |
|---|-------------------|
| STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS | |
| Capacitor Voltage Rating | Operating Voltage |
| 4.0 | 2.5 |
| 6.3 | 3.6 |
| 10 | 6.0 |
| 16 | 10 |
| 20 | 12 |
| 25 | 15 |
| 35 | 24 |
| 50 | 28 |
| SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS | |
| Capacitor Voltage Rating | Operating Voltage |
| 4.0 | 2.5 |
| 6.3 | 3.3 |
| 10 | 5.0 |
| 16 | 8.0 |
| 20 | 10 |
| 25 | 12 |
| 35 | 15 |
| 50 | 24 |





| POWER DISSIPATION | |
|-------------------|--|
| CASE CODE | MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR |
| B | 0.085 |
| C | 0.110 |
| D | 0.150 |
| R | 0.250 |

| STANDARD PACKAGING QUANTITY | | |
|-----------------------------|----------------|----------|
| CASE CODE | UNITS PER REEL | |
| | 7" REEL | 13" REEL |
| B | 2000 | 8000 |
| C | 500 | 3000 |
| D | 500 | 3000 |
| R | 600 | n/a |

| PRODUCT INFORMATION | |
|--------------------------------|--|
| Conformal Coated Guide | www.vishay.com/doc?40150 |
| Moisture Sensitivity | www.vishay.com/doc?40135 |
| SELECTOR GUIDES | |
| Solid Tantalum Selector Guide | www.vishay.com/doc?49053 |
| Solid Tantalum Chip Capacitors | www.vishay.com/doc?40091 |
| FAQ | |
| Frequently Asked Questions | www.vishay.com/doc?40110 |



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Material Category Policy

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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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