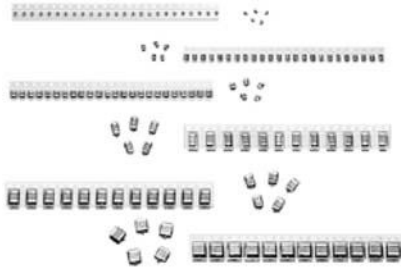


Solid Tantalum Chip Capacitors, TANTAMOUNT[®], Conformal Coated



FEATURES

- Pad compatible with 194D and MIL-PRF-55365/4 (CWR06)
- 8 mm, 12 mm 16 mm tape to EIA-481 and reeling per IEC 286-3. 7" [178 mm] standard 13" [330 mm] available
- Mounting: Surface mount
- Terminations: 100 % tin (2) standard, tin/lead available
- 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 270 µF

Capacitance Tolerance: ± 10 %, ± 20 % standard

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

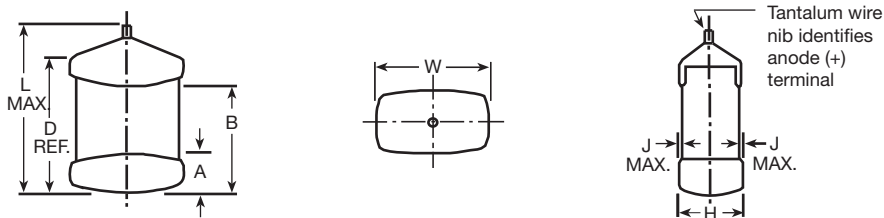
ORDERING INFORMATION

| 695D TYPE | 475 CAPACITANCE | X0 CAPACITANCE TOLERANCE | 004 DC VOLTAGE RATING AT + 85 °C | A CASE CODE | 2 TERMINATION | T REEL SIZE AND 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 % 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 V). | See Ratings and Case Codes table | 2 = 100 % tin 4 = Gold plated 8 = Solder plated (60/40) Special order | T = Tape and reel 7" [178 mm] reel W = 13" [330 mm] reel See tape and reel specifications |

Notes

- 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.

DIMENSIONS in inches [millimeters]



| CASE CODE | L (MAX.) | D (REF.) | W | H | A | B | J (MAX.) |
|-----------|----------------|-----------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-----------------|
| A | 0.134 [3.4] | 0.100 [2.54] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.023 ± 0.010 [0.584 ± 0.25] | 0.067 ± 0.015 [1.70 ± 0.38] | 0.004 [0.10] |
| B | 0.185 [4.7] | 0.150 [3.81] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.040 ± 0.015 [1.02 ± 0.38] | 0.120 ± 0.015 [3.05 ± 0.38] | 0.004 [0.10] |
| D | 0.185 [4.7] | 0.140 [3.56] | 0.095 ± 0.015 [2.41 ± 0.38] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.040 ± 0.015 [1.02 ± 0.38] | 0.110 ± 0.020 [2.79 ± 0.51] | 0.004 [0.10] |
| E | 0.236 [6.0] | 0.200 [5.08] | 0.095 ± 0.015 [2.41 ± 0.38] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.040 ± 0.015 [1.02 ± 0.38] | 0.170 ± 0.020 [4.32 ± 0.51] | 0.004 [0.10] |
| F | 0.256 [6.5] | 0.220 [5.59] | 0.135 ± 0.015 [3.43 ± 0.38] | 0.070 ± 0.015 [1.78 ± 0.38] | 0.040 ± 0.015 [1.02 ± 0.38] | 0.185 ± 0.020 [4.70 ± 0.51] | 0.004 [0.10] |
| G | 0.300 [7.6] | 0.260 [6.60] | 0.100 ± 0.015 [2.54 ± 0.38] | 0.100 ± 0.015 [2.54 ± 0.38] | 0.040 ± 0.015 [1.02 ± 0.38] | 0.220 ± 0.020 [5.59 ± 0.51] | 0.004 [0.10] |
| H | 0.303 [7.7] | 0.265 [6.73] | 0.150 ± 0.015 [3.81 ± 0.38] | 0.110 ± 0.015 [2.79 ± 0.38] | 0.050 ± 0.015 [1.27 ± 0.38] | 0.220 ± 0.020 [5.59 ± 0.51] | 0.004 [0.10] |

Note

- The anode termination (D less B) will be a minimum of 0.25 mm (0.010").



| RATINGS AND CASE CODES | | | | | | | | |
|------------------------|-----|-----|------|------|------|------|------|------|
| μF | 4 V | 6 V | 10 V | 15 V | 20 V | 25 V | 35 V | 50 V |
| 0.10 | | | | | | | | A |
| 0.15 | | | | | | | | A |
| 0.22 | | | | | | | A | B |
| 0.33 | | | | | | | A | B |
| 0.47 | | | | | | A | B | D |
| 0.68 | | | | | | A | B | D |
| 1.0 | | | | | A | B | D | D |
| 1.5 | | | | A | B | D | D | E |
| 2.2 | | | | A | B | D | E | F |
| 3.3 | | | A | B | D | D | F | F |
| 4.7 | A | A | B | D | D | E | F | G |
| 6.8 | B | B | D | D | E | F | F | H |
| 10 | B | D | D | D | F | F | G | H |
| 15 | D | D | D | E | F | G | H | |
| 22 | D | D | E | F | G | H | | |
| 33 | E | E | F | F | G | H | | |
| 47 | F | F | F | G | H | | | |
| 68 | F | F | G | H | | | | |
| 100 | F | G | G | H | | | | |
| 120 | G | G | H | | | | | |
| 150 | G | H | H | | | | | |
| 180 | H | H | | | | | | |
| 220 | H | H | | | | | | |
| 270 | H | | | | | | | |

| 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 | | | | | | | |
| 4.7 | A | 695D475(1)004A(2)(3) | 0.5 | 6 | 11.000 | 0.07 | |
| 6.8 | B | 695D685(1)004B(2)(3) | 0.5 | 6 | 9.000 | 0.09 | |
| 10 | B | 695D106(1)004B(2)(3) | 0.5 | 6 | 8.500 | 0.09 | |
| 15 | D | 695D156(1)004D(2)(3) | 0.6 | 6 | 2.200 | 0.20 | |
| 22 | D | 695D226(1)004D(2)(3) | 0.9 | 6 | 2.000 | 0.21 | |
| 33 | E | 695D336(1)004E(2)(3) | 1.3 | 6 | 1.500 | 0.25 | |
| 47 | F | 695D476(1)004F(2)(3) | 1.9 | 6 | 1.000 | 0.33 | |
| 68 | F | 695D686(1)004F(2)(3) | 2.7 | 6 | 0.900 | 0.35 | |
| 100 | F | 695D107(1)004F(2)(3) | 4.0 | 8 | 0.900 | 0.35 | |
| 120 | G | 695D127(1)004G(2)(3) | 4.8 | 8 | 0.700 | 0.41 | |
| 150 | G | 695D157(1)004G(2)(3) | 6.0 | 8 | 0.650 | 0.43 | |
| 180 | H | 695D187(1)004H(2)(3) | 7.2 | 8 | 0.400 | 0.61 | |
| 220 | H | 695D227(1)004H(2)(3) | 8.8 | 8 | 0.350 | 0.65 | |
| 270 | H | 695D277(1)004H(2)(3) | 10.8 | 8 | 0.350 | 0.65 | |

Note

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



| 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) |
| 6 V_{DC} AT + 85 °C; 4 V_{DC} AT + 125 °C | | | | | | |
| 4.7 | A | 695D475(1)006A(2)(3) | 0.5 | 6 | 11.000 | 0.07 |
| 6.8 | B | 695D685(1)006B(2)(3) | 0.5 | 6 | 9.000 | 0.07 |
| 10 | D | 695D106(1)006D(2)(3) | 0.6 | 6 | 8.500 | 0.10 |
| 15 | D | 695D156(1)006D(2)(3) | 0.9 | 6 | 2.200 | 0.20 |
| 22 | D | 695D226(1)006D(2)(3) | 1.3 | 6 | 2.000 | 0.32 |
| 33 | E | 695D336(1)006E(2)(3) | 2.0 | 6 | 1.500 | 0.25 |
| 47 | F | 695D476(1)006F(2)(3) | 2.8 | 6 | 1.000 | 0.33 |
| 68 | F | 695D686(1)006F(2)(3) | 4.1 | 6 | 0.900 | 0.35 |
| 100 | G | 695D107(1)006G(2)(3) | 6.0 | 8 | 0.900 | 0.37 |
| 120 | G | 695D127(1)006G(2)(3) | 7.2 | 8 | 0.700 | 0.41 |
| 150 | H | 695D157(1)006H(2)(3) | 9.0 | 8 | 0.650 | 0.48 |
| 180 | H | 695D187(1)006H(2)(3) | 10.8 | 8 | 0.400 | 0.61 |
| 220 | H | 695D227(1)006H(2)(3) | 13.2 | 8 | 0.350 | 0.65 |
| 10 V_{DC} AT + 85 °C; 7 V_{DC} AT + 125 °C | | | | | | |
| 3.3 | A | 695D335(1)010A(2)(3) | 0.5 | 6 | 11.500 | 0.07 |
| 4.7 | B | 695D475(1)010B(2)(3) | 0.5 | 6 | 10.600 | 0.08 |
| 6.8 | D | 695D685(1)010D(2)(3) | 0.7 | 6 | 2.600 | 0.18 |
| 10 | D | 695D106(1)010D(2)(3) | 1.0 | 6 | 2.500 | 0.18 |
| 15 | D | 695D156(1)010D(2)(3) | 1.5 | 6 | 2.200 | 0.2 |
| 22 | E | 695D226(1)010E(2)(3) | 2.2 | 6 | 2.000 | 0.22 |
| 33 | F | 695D336(1)010F(2)(3) | 3.3 | 6 | 1.200 | 0.3 |
| 47 | F | 695D476(1)010F(2)(3) | 4.7 | 6 | 1.000 | 0.33 |
| 68 | G | 695D686(1)010G(2)(3) | 6.8 | 6 | 0.750 | 0.4 |
| 100 | G | 695D107(1)010G(2)(3) | 10 | 8 | 0.750 | 0.4 |
| 120 | H | 695D127(1)010H(2)(3) | 12 | 8 | 0.450 | 0.58 |
| 150 | H | 695D157(1)010H(2)(3) | 15 | 8 | 0.400 | 0.61 |
| 15 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C | | | | | | |
| 1.5 | A | 695D155(1)015A(2)(3) | 0.5 | 6 | 14.000 | 0.07 |
| 2.2 | A | 695D225(1)015A(2)(3) | 0.5 | 6 | 12.000 | 0.07 |
| 3.3 | B | 695D335(1)015B(2)(3) | 0.5 | 6 | 10.800 | 0.08 |
| 4.7 | D | 695D475(1)015D(2)(3) | 0.7 | 6 | 2.800 | 0.17 |
| 6.8 | D | 695D685(1)015D(2)(3) | 1.0 | 6 | 2.600 | 0.18 |
| 10 | D | 695D106(1)015D(2)(3) | 1.5 | 6 | 2.500 | 0.18 |
| 15 | E | 695D156(1)015E(2)(3) | 2.3 | 6 | 2.300 | 0.20 |
| 22 | F | 695D226(1)015F(2)(3) | 3.3 | 6 | 1.400 | 0.28 |
| 33 | F | 695D336(1)015F(2)(3) | 5.0 | 6 | 1.200 | 0.30 |
| 47 | G | 695D476(1)015G(2)(3) | 7.1 | 6 | 0.800 | 0.39 |
| 68 | H | 695D686(1)015H(2)(3) | 10.2 | 6 | 0.500 | 0.55 |
| 100 | H | 695D107(1)015H(2)(3) | 15.0 | 8 | 0.450 | 0.58 |

Note

- Part number definitions:
 - (1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - (2) Termination: For 100 % tin specify "2"; for gold plated specify "4", for solder plated 60/40 specify "8"
 - (3) 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 | | | | | | |
| 1.0 | A | 695D105(1)020A(2)(3) | 0.5 | 4 | 15.000 | 0.06 |
| 1.5 | B | 695D155(1)020B(2)(3) | 0.5 | 6 | 12.000 | 0.08 |
| 2.2 | B | 695D225(1)020B(2)(3) | 0.5 | 6 | 11.000 | 0.08 |
| 3.3 | D | 695D335(1)020D(2)(3) | 0.7 | 6 | 3.000 | 0.17 |
| 4.7 | D | 695D475(1)020D(2)(3) | 0.9 | 6 | 2.800 | 0.17 |
| 6.8 | E | 695D685(1)020E(2)(3) | 1.4 | 6 | 2.550 | 0.19 |
| 10 | F | 695D106(1)020F(2)(3) | 2.0 | 6 | 1.800 | 0.25 |
| 15 | F | 695D156(1)020F(2)(3) | 3.0 | 6 | 1.500 | 0.27 |
| 22 | G | 695D226(1)020G(2)(3) | 4.4 | 6 | 0.900 | 0.37 |
| 33 | G | 695D336(1)020G(2)(3) | 6.6 | 6 | 0.800 | 0.39 |
| 47 | H | 695D476(1)020H(2)(3) | 9.4 | 6 | 0.500 | 0.55 |
| 25 V_{DC} AT + 85 °C; 17 V_{DC} AT + 125 °C | | | | | | |
| 0.47 | A | 695D474(1)025A(2)(3) | 0.5 | 4 | 17.000 | 0.06 |
| 0.68 | A | 695D684(1)025A(2)(3) | 0.5 | 4 | 15.000 | 0.06 |
| 1.0 | B | 695D105(1)025B(2)(3) | 0.5 | 4 | 13.000 | 0.08 |
| 1.5 | D | 695D155(1)025D(2)(3) | 0.5 | 6 | 4.200 | 0.14 |
| 2.2 | D | 695D225(1)025D(2)(3) | 0.6 | 6 | 3.500 | 0.16 |
| 3.3 | D | 695D335(1)025D(2)(3) | 0.8 | 6 | 3.000 | 0.17 |
| 4.7 | E | 695D475(1)025E(2)(3) | 1.2 | 6 | 2.750 | 0.19 |
| 6.8 | F | 695D685(1)025F(2)(3) | 1.7 | 6 | 2.000 | 0.23 |
| 10 | F | 695D106(1)025F(2)(3) | 2.5 | 6 | 1.800 | 0.25 |
| 15 | G | 695D156(1)025G(2)(3) | 3.8 | 6 | 1.000 | 0.35 |
| 22 | H | 695D226(1)025H(2)(3) | 5.5 | 6 | 0.700 | 0.46 |
| 33 | H | 695D336(1)025H(2)(3) | 8.3 | 6 | 0.800 | 0.50 |
| 35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C | | | | | | |
| 0.22 | A | 695D224(1)035A(2)(3) | 0.5 | 4 | 20.000 | 0.05 |
| 0.33 | A | 695D334(1)035A(2)(3) | 0.5 | 4 | 18.000 | 0.06 |
| 0.47 | B | 695D474(1)035B(2)(3) | 0.5 | 4 | 15.000 | 0.07 |
| 0.68 | B | 695D684(1)035B(2)(3) | 0.5 | 4 | 14.000 | 0.07 |
| 1.0 | D | 695D105(1)035D(2)(3) | 0.5 | 4 | 8.000 | 0.10 |
| 1.5 | D | 695D155(1)035D(2)(3) | 0.5 | 6 | 4.200 | 0.14 |
| 2.2 | E | 695D225(1)035E(2)(3) | 0.8 | 6 | 4.000 | 0.15 |
| 3.3 | F | 695D335(1)035F(2)(3) | 1.2 | 6 | 3.200 | 0.19 |
| 4.7 | F | 695D475(1)035F(2)(3) | 1.6 | 6 | 2.700 | 0.20 |
| 6.8 | F | 695D685(1)035F(2)(3) | 2.4 | 6 | 2.000 | 0.23 |
| 10 | G | 695D106(1)035G(2)(3) | 3.5 | 6 | 1.300 | 0.30 |
| 15 | H | 695D156(1)035H(2)(3) | 5.3 | 6 | 0.800 | 0.43 |

Note

- Part number definitions:

(1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"

(2) Termination: For 100 % tin specify "2"; for gold plated specify "4", for solder plated 60/40 specify "8"

(3) 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) |
| 50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C | | | | | | |
| 0.10 | A | 695D104(1)050A(2)(3) | 0.5 | 4 | 32.000 | 0.04 |
| 0.15 | A | 695D154(1)050A(2)(3) | 0.5 | 4 | 30.000 | 0.04 |
| 0.22 | B | 695D224(1)050B(2)(3) | 0.5 | 4 | 18.000 | 0.06 |
| 0.33 | B | 695D334(1)050B(2)(3) | 0.5 | 4 | 16.000 | 0.07 |
| 0.47 | D | 695D474(1)050D(2)(3) | 0.5 | 4 | 9.000 | 0.10 |
| 0.68 | D | 695D684(1)050D(2)(3) | 0.5 | 4 | 8.500 | 0.10 |
| 1.0 | D | 695D105(1)050D(2)(3) | 0.5 | 4 | 8.000 | 0.10 |
| 1.5 | E | 695D155(1)050E(2)(3) | 0.8 | 6 | 5.500 | 0.13 |
| 2.2 | F | 695D225(1)050F(2)(3) | 1.1 | 6 | 3.900 | 0.17 |
| 3.3 | F | 695D335(1)050F(2)(3) | 1.7 | 6 | 3.200 | 0.19 |
| 4.7 | G | 695D475(1)050G(2)(3) | 2.4 | 6 | 2.500 | 0.22 |
| 6.8 | H | 695D685(1)050H(2)(3) | 3.4 | 6 | 1.200 | 0.35 |
| 10 | H | 695D106(1)050H(2)(3) | 5.0 | 6 | 1.000 | 0.39 |

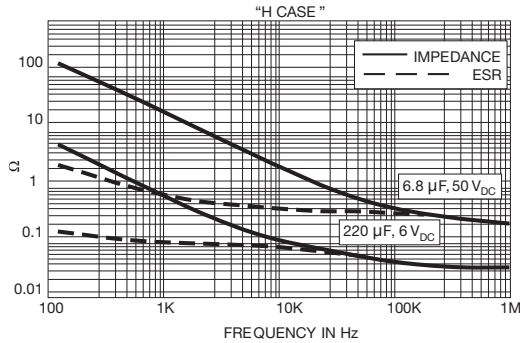
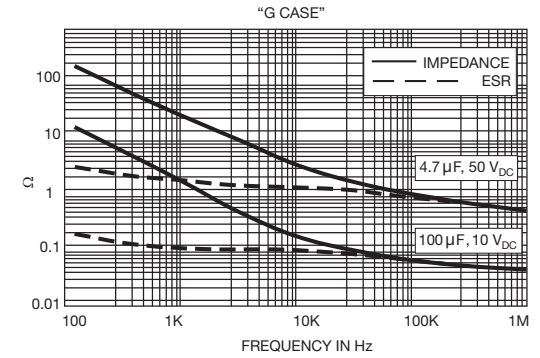
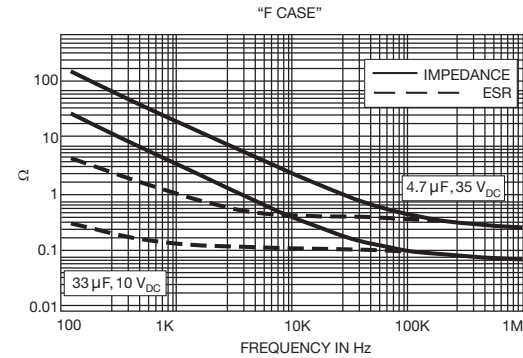
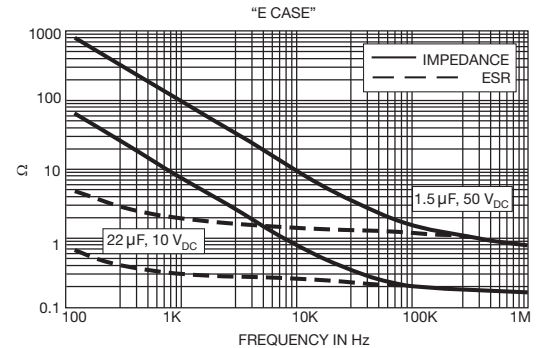
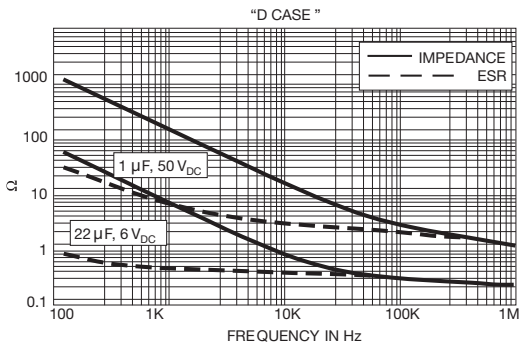
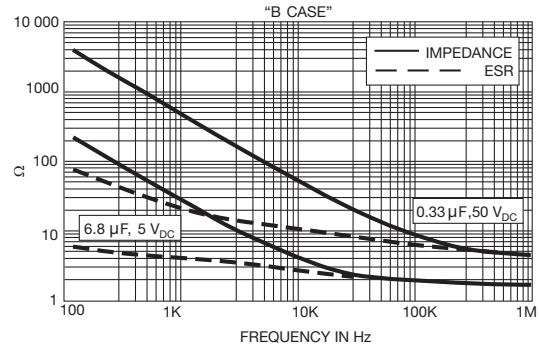
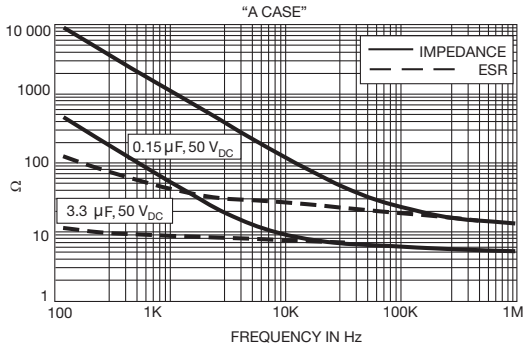
Note

- 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 temperatures below + 85 °C) | |
|--|-------------------|
| STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS | |
| Capacitor Voltage Rating | Operating Voltage |
| 4.0 | 2.5 |
| 6.0 | 3.6 |
| 10 | 6.0 |
| 15 | 9.0 |
| 20 | 12 |
| 25 | 15 |
| 35 | 24 |
| 50 | 28 |
| SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS | |
| Capacitor Voltage Rating | Operating Voltage |
| 4.0 | 2.5 |
| 6.0 | 3.0 |
| 10 | 5.0 |
| 15 | 7.5 |
| 20 | 10 |
| 25 | 12 |
| 35 | 15 |
| 50 | 24 |



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





| POWER DISSIPATION | |
|-------------------|--|
| CASE CODE | MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR |
| A | 0.060 |
| B | 0.075 |
| D | 0.085 |
| E | 0.095 |
| F | 0.110 |
| G | 0.120 |
| H | 0.150 |

| STANDARD PACKAGING QUANTITY | | |
|-----------------------------|----------------|----------|
| CASE CODE | UNITS PER REEL | |
| | 7" REEL | 13" REEL |
| A | 2500 | 10 000 |
| B | 2500 | 10 000 |
| D | 2500 | 10 000 |
| E | 2500 | 10 000 |
| F | 1000 | 4000 |
| G | 1500 | 5000 |
| H | 600 | 2500 |

| 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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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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JONHON

«JONHON» (основан в 1970 г.)

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