

Solid Tantalum Surface Mount Capacitors TANTAMOUNT[®], Molded Case, Low ESR


FEATURES

- Terminations: 100 % matte tin, standard tin/lead available
- Molded case available in seven case codes
- Compatible with "High Volume" automatic pick and place equipment
- Mounting: Surface mount
- High ripple current carrying capability
- Low ESR
- Meets EIA 535BAAC and IEC specification QC300801/US0001
- 100 % surge current tested (C, D, and E case sizes)
- Moisture sensitivity level 1
- Material categorization: For definitions of compliance 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 + 85 °C
(to + 125 °C with voltage derating)

Capacitance Range: 0.47 μF to 1000 μF

Capacitance Tolerance: ± 10 %, ± 20 %

Voltage Rating: 4 V_{DC} to 63 V_{DC}

| ORDERING INFORMATION | | | | | | |
|----------------------|----------------------------------|--|--------------------------|--|--|--|
| TR3 | D | 107 | K | 010 | C | 0100 |
| TYPE | CASE CODE | CAPACITANCE | CAPACITANCE TOLERANCE | DC VOLTAGE RATING AT + 85 °C | TERMINATION AND PACKAGING | ESR |
| | See Ratings and Case Codes table | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. | K = ± 10 % M = ± 20 % | 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). | C = Matte tin/7" (178 mm) reels D = Matte tin/13" (330 mm) reels E = Tin/lead/7" (178 mm) reels F = Tin/lead/13" (330 mm) reels | Maximum 100 kHz ESR in mΩ. See note below. |

Notes

- 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. The EIA and CECC standards for low ESR solid tantalum chip capacitors, allow delta ESR of 1.25 times the datasheet limit after mounting.
- Dry pack is available per request, contact regional marketing.

| DIMENSIONS in inches [millimeters] | | | | | | | |
|------------------------------------|----------|-------------------------------|-------------------------------|-------------------------------|--------------------------------|-------------------------------|-----------------------|
| | | | | | | | |
| CASE CODE | EIA SIZE | L | W | H | P | T _W | T _H (MIN.) |
| A | 3216-18 | 0.126 ± 0.008 [3.2 ± 0.20] | 0.063 ± 0.008 [1.6 ± 0.20] | 0.063 ± 0.008 [1.6 ± 0.20] | 0.031 ± 0.012 [0.80 ± 0.30] | 0.047 ± 0.004 [1.2 ± 0.10] | 0.028 [0.70] |
| B | 3528-21 | 0.138 ± 0.008 [3.5 ± 0.20] | 0.110 ± 0.008 [2.8 ± 0.20] | 0.075 ± 0.008 [1.9 ± 0.20] | 0.031 ± 0.012 [0.80 ± 0.30] | 0.087 ± 0.004 [2.2 ± 0.10] | 0.028 [0.70] |
| C | 6032-28 | 0.236 ± 0.012 [6.0 ± 0.30] | 0.126 ± 0.012 [3.2 ± 0.30] | 0.098 ± 0.012 [2.5 ± 0.30] | 0.051 ± 0.012 [1.3 ± 0.30] | 0.087 ± 0.004 [2.2 ± 0.10] | 0.039 [1.0] |
| D | 7343-31 | 0.287 ± 0.012 [7.3 ± 0.30] | 0.170 ± 0.012 [4.3 ± 0.30] | 0.110 ± 0.012 [2.8 ± 0.30] | 0.051 ± 0.012 [1.3 ± 0.30] | 0.094 ± 0.004 [2.4 ± 0.10] | 0.039 [1.0] |
| E | 7343-43 | 0.287 ± 0.012 [7.3 ± 0.30] | 0.169 ± 0.012 [4.3 ± 0.30] | 0.157 ± 0.012 [4.0 ± 0.30] | 0.051 ± 0.012 [1.3 ± 0.30] | 0.094 ± 0.004 [2.4 ± 0.10] | 0.039 [1.0] |
| V | 7343-20 | 0.287 ± 0.012 [7.3 ± 0.30] | 0.169 ± 0.012 [4.3 ± 0.30] | 0.079 max. [2.0 max.] | 0.051 ± 0.012 [1.3 ± 0.30] | 0.094 ± 0.004 [2.4 ± 0.10] | 0.039 [1.0] |
| W | 7361-38 | 0.287 ± 0.012 [7.3 ± 0.30] | 0.236 ± 0.012 [6.0 ± 0.30] | 0.138 ± 0.012 [3.5 ± 0.30] | 0.047 ± 0.008 [1.2 ± 0.20] | 0.122 ± 0.004 [3.1 ± 0.10] | 0.069 [1.75] |

| RATINGS AND CASE CODES | | | | | | | | | |
|------------------------|-------|---------|-----------|-------|-------|---------|-------|-------|------|
| μF | 4 V | 6.3 V | 10 V | 16 V | 20 V | 25 V | 35 V | 50 V | 63 V |
| 0.47 | | | | | | | A | | |
| 0.68 | | | | | | | A | | |
| 1.0 | | | | | A | A | A/B | B/C | |
| 1.5 | | | | | | A | B/C | B/C | |
| 2.2 | | | A | A | A | A/B | B/C | B/C/D | |
| 3.3 | | | | A | A/B | A/B | B/C | C/D | |
| 4.7 | | | A | A/B | A/B | A/B/C | B/C/D | C/D/E | D |
| 6.8 | | | A | A/B | A/B | B/C | C/D/E | D/E | |
| 10 | | A | A/B | A/B/C | B/C | B/C/D | C/D/E | D/E | E |
| 15 | A | A | A/B | B/C | B/C | B/C/D | D/E | E | |
| 22 | A | A/B | A/B/C | B/C/D | B/C/D | C/D/E/V | D/E | | |
| 33 | A/B | A/B | B/C | B/C/D | C/D | D/E | | | |
| 47 | A/B | A/B/C | B/C/D | C/D | D/E | D/E | | | |
| 68 | B/C | B/C/D | B/C/D/E/V | D | D/E | E/W | | | |
| 100 | A/B/C | B/C/D/V | B/C/D/E/V | D/E | D/E/W | W | | | |
| 150 | B/C/D | C/D/E | C/D/E | D/E | W | | | | |
| 220 | B/C/D | C/D/E/V | D/E/V | E | | | | | |
| 330 | D | D/E/W | D/E/W | | | | | | |
| 470 | D/E | D/E/W | E/W | | | | | | |
| 680 | D/E | E | | | | | | | |
| 1000 | E | E | | | | | | | |

| MARKING | | | | | | | | | | | | | | | | | | | | |
|--|---|-------|------|-----|---|-----|---|----|---|----|---|----|---|----|---|----|---|----|---|-----------------------------------|
| <p>A Case</p> | <p>“A” CASE VOLTAGE CODE</p> <table border="1"> <thead> <tr> <th>VOLTS</th> <th>CODE</th> </tr> </thead> <tbody> <tr><td>4.0</td><td>G</td></tr> <tr><td>6.3</td><td>J</td></tr> <tr><td>10</td><td>A</td></tr> <tr><td>16</td><td>C</td></tr> <tr><td>20</td><td>D</td></tr> <tr><td>25</td><td>E</td></tr> <tr><td>35</td><td>V</td></tr> <tr><td>50</td><td>T</td></tr> </tbody> </table> | VOLTS | CODE | 4.0 | G | 6.3 | J | 10 | A | 16 | C | 20 | D | 25 | E | 35 | V | 50 | T | <p>B, C, D, E, V Cases</p> |
| | VOLTS | CODE | | | | | | | | | | | | | | | | | | |
| 4.0 | G | | | | | | | | | | | | | | | | | | | |
| 6.3 | J | | | | | | | | | | | | | | | | | | | |
| 10 | A | | | | | | | | | | | | | | | | | | | |
| 16 | C | | | | | | | | | | | | | | | | | | | |
| 20 | D | | | | | | | | | | | | | | | | | | | |
| 25 | E | | | | | | | | | | | | | | | | | | | |
| 35 | V | | | | | | | | | | | | | | | | | | | |
| 50 | T | | | | | | | | | | | | | | | | | | | |
| <p>Marking</p> <p>Capacitor marking includes an anode (+) polarity band, capacitance in microfarads and the voltage rating. “A” Case capacitors use a letter code for the voltage and EIA capacitance code.</p> <p>The Vishay Sprague® trademark is included if space permits. Capacitors rated at 6.3 V are marked 6 V.</p> <p>A manufacturing date code is marked on all capacitors.</p> <p>Call the factory for further explanation.</p> | | | | | | | | | | | | | | | | | | | | |



| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 4 V_{DC} AT + 85 °C; 2.7 V_{DC} AT + 125 °C | | | | | | |
| 15 | A | TR3A156(1)004(2)1500 | 0.6 | 6 | 1.500 | 0.22 |
| 22 | A | TR3A226(1)004(2)1500 | 0.9 | 6 | 1.500 | 0.22 |
| 33 | A | TR3A336(1)004(2)1500 | 1.3 | 6 | 1.500 | 0.22 |
| 33 | B | TR3B336(1)004(2)0500 | 1.3 | 6 | 0.500 | 0.41 |
| 47 | A | TR3A476(1)004(2)0800 | 1.9 | 14 | 0.800 | 0.31 |
| 47 | A | TR3A476(1)004(2)0500 | 1.9 | 14 | 0.500 | 0.39 |
| 47 | B | TR3B476(1)004(2)0500 | 1.9 | 6 | 0.500 | 0.41 |
| 68 | B | TR3B686(1)004(2)0500 | 2.7 | 6 | 0.500 | 0.41 |
| 68 | C | TR3C686(1)004(2)0275 | 2.7 | 6 | 0.275 | 0.63 |
| 100 | A | TR3A107M004(2)1000 | 10.0 | 30 | 1.000 | 0.27 |
| 100 | B | TR3B107(1)004(2)0450 | 4.0 | 8 | 0.450 | 0.43 |
| 100 | C | TR3C107(1)004(2)0225 | 4.0 | 6 | 0.225 | 0.70 |
| 150 | B | TR3B157(1)004(2)0900 | 6.0 | 14 | 0.900 | 0.31 |
| 150 | B | TR3B157(1)004(2)0500 | 6.0 | 14 | 0.500 | 0.41 |
| 150 | B | TR3B157(1)004(2)0400 | 6.0 | 14 | 0.400 | 0.46 |
| 150 | C | TR3C157(1)004(2)0250 | 6.0 | 12 | 0.250 | 0.66 |
| 150 | D | TR3D157(1)004(2)0150 | 6.0 | 8 | 0.150 | 1.00 |
| 220 | B | TR3B227M004(2)1100 | 8.8 | 18 | 1.100 | 0.28 |
| 220 | B | TR3B227M004(2)0700 | 8.8 | 18 | 0.700 | 0.35 |
| 220 | B | TR3B227M004(2)0500 | 8.8 | 18 | 0.500 | 0.41 |
| 220 | B | TR3B227M004(2)0450 | 8.8 | 18 | 0.450 | 0.43 |
| 220 | C | TR3C227(1)004(2)0200 | 8.8 | 8 | 0.200 | 0.74 |
| 220 | D | TR3D227(1)004(3)0050 | 8.8 | 8 | 0.050 | 1.73 |
| 220 | D | TR3D227(1)004(2)0150 | 8.8 | 8 | 0.150 | 1.00 |
| 220 | D | TR3D227(1)004(2)0100 | 8.8 | 8 | 0.100 | 1.22 |
| 330 | D | TR3D337(1)004(2)0100 | 13.2 | 8 | 0.100 | 1.22 |
| 330 | D | TR3D337(1)004(3)0045 | 13.2 | 8 | 0.045 | 1.83 |
| 330 | D | TR3D337(1)004(3)0035 | 13.2 | 8 | 0.035 | 2.07 |
| 330 | D | TR3D337(1)004(2)0150 | 13.2 | 8 | 0.150 | 1.00 |
| 470 | D | TR3D477(1)004(2)0125 | 18.8 | 10 | 0.125 | 1.10 |
| 470 | D | TR3D477(1)004(2)0100 | 18.8 | 10 | 0.100 | 1.22 |
| 470 | D | TR3D477(1)004(2)0060 | 18.8 | 10 | 0.060 | 1.58 |
| 470 | D | TR3D477(1)004(3)0045 | 18.8 | 10 | 0.045 | 1.83 |
| 470 | D | TR3D477(1)004(3)0035 | 18.8 | 10 | 0.035 | 2.07 |
| 470 | E | TR3E477(1)004(2)0100 | 18.8 | 10 | 0.100 | 1.28 |
| 470 | E | TR3E477(1)004(3)0045 | 18.8 | 10 | 0.045 | 1.91 |
| 470 | E | TR3E477(1)004(3)0035 | 18.8 | 10 | 0.035 | 2.17 |
| 680 | D | TR3D687M004(2)0100 | 27.2 | 25 | 0.100 | 1.22 |
| 680 | D | TR3D687M004(3)0060 | 27.2 | 25 | 0.060 | 1.58 |
| 680 | E | TR3E687(1)004(2)0100 | 27.2 | 12 | 0.100 | 1.28 |
| 1000 | E | TR3E108M004(2)0100 | 40.0 | 20 | 0.100 | 1.28 |
| 6.3 V_{DC} AT + 85 °C; 4 V_{DC} AT 125 °C | | | | | | |
| 10 | A | TR3A106(1)6R3(2)2000 | 0.6 | 6 | 2.000 | 0.19 |
| 10 | A | TR3A106(1)6R3(2)1500 | 0.6 | 6 | 1.500 | 0.22 |
| 15 | A | TR3A156(1)6R3(2)2000 | 0.9 | 6 | 2.000 | 0.19 |
| 15 | A | TR3A156(1)6R3(2)1000 | 0.9 | 6 | 1.000 | 0.27 |
| 22 | A | TR3A226(1)6R3(2)3000 | 1.4 | 6 | 3.000 | 0.16 |
| 22 | A | TR3A226(1)6R3(2)2000 | 1.4 | 6 | 2.000 | 0.19 |

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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 | | | | | | |
| 22 | A | TR3A226(1)6R3(2)1000 | 1.4 | 6 | 1.000 | 0.27 |
| 22 | A | TR3A226(1)6R3(2)0900 | 1.4 | 6 | 0.900 | 0.29 |
| 22 | B | TR3B226(1)6R3(2)0600 | 1.4 | 6 | 0.600 | 0.38 |
| 33 | A | TR3A336(1)6R3(2)2000 | 2.0 | 14 | 2.000 | 0.19 |
| 33 | A | TR3A336(1)6R3(2)0800 | 2.0 | 14 | 0.800 | 0.31 |
| 33 | A | TR3A336(1)6R3(2)0600 | 2.0 | 14 | 0.600 | 0.35 |
| 33 | B | TR3B336(1)6R3(2)0450 | 2.0 | 6 | 0.450 | 0.43 |
| 33 | B | TR3B336(1)6R3(2)0350 | 2.0 | 6 | 0.350 | 0.49 |
| 33 | B | TR3B336(1)6R3(2)0600 | 2.0 | 6 | 0.600 | 0.38 |
| 33 | B | TR3B336(1)6R3(2)0500 | 2.0 | 6 | 0.500 | 0.41 |
| 47 | A | TR3A476(1)6R3(2)0800 | 3.0 | 12 | 0.800 | 0.31 |
| 47 | B | TR3B476(1)6R3(2)0550 | 3.0 | 6 | 0.550 | 0.39 |
| 47 | B | TR3B476(1)6R3(2)0500 | 3.0 | 6 | 0.500 | 0.41 |
| 47 | B | TR3B476(1)6R3(2)0350 | 3.0 | 6 | 0.350 | 0.49 |
| 47 | B | TR3B476(1)6R3(2)0250 | 3.0 | 6 | 0.250 | 0.58 |
| 47 | C | TR3C476(1)6R3(2)0300 | 3.0 | 6 | 0.300 | 0.61 |
| 47 | C | TR3C476(1)6R3(2)0250 | 3.0 | 6 | 0.250 | 0.66 |
| 68 | B | TR3B686(1)6R3(2)0650 | 4.3 | 6 | 0.650 | 0.36 |
| 68 | B | TR3B686(1)6R3(2)0550 | 4.3 | 6 | 0.550 | 0.39 |
| 68 | B | TR3B686(1)6R3(2)0500 | 4.3 | 6 | 0.500 | 0.41 |
| 68 | B | TR3B686(1)6R3(2)0350 | 4.3 | 6 | 0.350 | 0.49 |
| 68 | B | TR3B686(1)6R3(2)0250 | 4.3 | 6 | 0.250 | 0.58 |
| 68 | C | TR3C686(1)6R3(2)0275 | 4.3 | 6 | 0.275 | 0.63 |
| 68 | C | TR3C686(1)6R3(2)0250 | 4.3 | 6 | 0.250 | 0.66 |
| 68 | C | TR3C686(1)6R3(2)0200 | 4.3 | 6 | 0.200 | 0.74 |
| 68 | D | TR3D686(1)6R3(2)0200 | 4.3 | 6 | 0.200 | 0.87 |
| 68 | D | TR3D686(1)6R3(2)0175 | 4.3 | 4 | 0.175 | 0.93 |
| 100 | B | TR3B107(1)6R3(2)1500 | 6.3 | 15 | 1.500 | 0.24 |
| 100 | B | TR3B107(1)6R3(2)0500 | 6.3 | 15 | 0.500 | 0.41 |
| 100 | B | TR3B107(1)6R3(2)0400 | 6.3 | 15 | 0.400 | 0.46 |
| 100 | C | TR3C107(1)6R3(2)0300 | 6.3 | 6 | 0.300 | 0.61 |
| 100 | C | TR3C107(1)6R3(2)0250 | 6.3 | 6 | 0.250 | 0.66 |
| 100 | C | TR3C107(1)6R3(2)0150 | 6.3 | 6 | 0.150 | 0.86 |
| 100 | C | TR3C107(1)6R3(2)0125 | 6.3 | 6 | 0.125 | 0.94 |
| 100 | D | TR3D107(1)6R3(2)0150 | 6.3 | 6 | 0.150 | 1.00 |
| 100 | D | TR3D107(1)6R3(2)0140 | 6.3 | 6 | 0.140 | 1.04 |
| 100 | V | TR3V107(1)6R3(3)0200 | 6.3 | 8 | 0.200 | 0.79 |
| 100 | V | TR3V107(1)6R3(3)0150 | 6.3 | 8 | 0.150 | 0.91 |
| 150 | C | TR3C157(1)6R3(2)0300 | 9.4 | 8 | 0.300 | 0.61 |
| 150 | C | TR3C157(1)6R3(2)0200 | 9.4 | 8 | 0.200 | 0.74 |
| 150 | D | TR3D157(1)6R3(2)0150 | 9.4 | 8 | 0.150 | 1.00 |
| 150 | D | TR3D157(1)6R3(2)0125 | 9.4 | 8 | 0.125 | 1.10 |
| 150 | D | TR3D157(1)6R3(2)0075 | 9.4 | 8 | 0.075 | 1.41 |
| 150 | D | TR3D157(1)6R3(2)0070 | 9.4 | 8 | 0.070 | 1.46 |
| 150 | D | TR3D157(1)6R3(3)0050 | 9.4 | 8 | 0.050 | 1.73 |
| 150 | E | TR3E157(1)6R3(2)0100 | 9.4 | 8 | 0.100 | 1.28 |
| 220 | C | TR3C227(1)6R3(2)0300 | 13.9 | 14 | 0.300 | 0.61 |
| 220 | C | TR3C227(1)6R3(2)0250 | 13.9 | 14 | 0.250 | 0.66 |
| 220 | C | TR3C227(1)6R3(2)0225 | 13.9 | 14 | 0.225 | 0.70 |
| 220 | D | TR3D227(1)6R3(2)0150 | 13.9 | 8 | 0.150 | 1.00 |

Notes

- Part number definitions:
 - (1) Capacitance tolerance codes: K, M
 - (2) Terminations and packaging codes: C, D, E, F
 - (3) Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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 | | | | | | |
| 220 | D | TR3D227(1)6R3(2)0100 | 13.9 | 8 | 0.100 | 1.22 |
| 220 | D | TR3D227(1)6R3(3)0050 | 13.9 | 8 | 0.050 | 1.73 |
| 220 | E | TR3E227(1)6R3(2)0150 | 13.9 | 8 | 0.150 | 1.05 |
| 220 | E | TR3E227(1)6R3(2)0100 | 13.9 | 8 | 0.100 | 1.28 |
| 220 | V | TR3V227(1)6R3(3)0100 | 13.9 | 10 | 0.100 | 1.12 |
| 220 | V | TR3V227(1)6R3(3)0150 | 13.9 | 10 | 0.150 | 0.91 |
| 330 | D | TR3D337(1)6R3(2)0150 | 20.8 | 8 | 0.150 | 1.00 |
| 330 | D | TR3D337(1)6R3(2)0125 | 20.8 | 8 | 0.125 | 1.10 |
| 330 | D | TR3D337(1)6R3(2)0100 | 20.8 | 8 | 0.100 | 1.22 |
| 330 | D | TR3D337(1)6R3(2)0060 | 20.8 | 8 | 0.060 | 1.58 |
| 330 | D | TR3D337(1)6R3(3)0050 | 20.8 | 8 | 0.050 | 1.73 |
| 330 | D | TR3D337(1)6R3(3)0045 | 20.8 | 8 | 0.045 | 1.83 |
| 330 | D | TR3D337(1)6R3(3)0035 | 20.8 | 8 | 0.035 | 2.07 |
| 330 | E | TR3E337(1)6R3(2)0150 | 20.8 | 8 | 0.150 | 1.05 |
| 330 | E | TR3E337(1)6R3(2)0100 | 20.8 | 8 | 0.100 | 1.28 |
| 330 | E | TR3E337(1)6R3(2)0050 | 20.8 | 8 | 0.050 | 1.82 |
| 330 | W | TR3W337(1)6R3(3)0100 | 20.8 | 8 | 0.100 | 1.58 |
| 330 | W | TR3W337(1)6R3(3)0060 | 20.8 | 8 | 0.060 | 2.04 |
| 470 | D | TR3D477(1)6R3(2)0200 | 29.6 | 14 | 0.200 | 0.87 |
| 470 | D | TR3D477(1)6R3(2)0150 | 29.6 | 14 | 0.150 | 1.00 |
| 470 | D | TR3D477(1)6R3(2)0125 | 29.6 | 14 | 0.125 | 1.10 |
| 470 | D | TR3D477(1)6R3(3)0100 | 29.6 | 14 | 0.100 | 1.22 |
| 470 | E | TR3E477(1)6R3(2)0100 | 29.6 | 10 | 0.100 | 1.28 |
| 470 | E | TR3E477(1)6R3(3)0065 | 29.6 | 10 | 0.065 | 1.59 |
| 470 | E | TR3E477(1)6R3(3)0060 | 29.6 | 10 | 0.060 | 1.66 |
| 470 | E | TR3E477(1)6R3(3)0050 | 29.6 | 10 | 0.050 | 1.82 |
| 470 | W | TR3W477(1)6R3(3)0100 | 29.6 | 20 | 0.100 | 1.58 |
| 470 | W | TR3W477(1)6R3(3)0060 | 29.6 | 20 | 0.060 | 2.04 |
| 470 | W | TR3W477(1)6R3(3)0050 | 29.6 | 20 | 0.050 | 2.24 |
| 680 | E | TR3E687(1)6R3(2)0100 | 42.8 | 20 | 0.100 | 1.28 |
| 1000 | E | TR3E108M6R3(2)0200 | 63.0 | 30 | 0.200 | 0.91 |
| 1000 | E | TR3E108M6R3(2)0150 | 63.0 | 30 | 0.150 | 1.05 |
| 1000 | E | TR3E108M6R3(3)0100 | 63.0 | 30 | 0.100 | 1.28 |
| 10 V_{DC} AT + 85 °C; 7 V_{DC} AT 125 °C | | | | | | |
| 2.2 | A | TR3A225(1)010(2)6800 | 0.5 | 6 | 6.800 | 0.11 |
| 2.2 | A | TR3A225(1)010(2)6000 | 0.5 | 6 | 6.000 | 0.11 |
| 2.2 | A | TR3A225(1)010(2)1800 | 0.5 | 6 | 1.800 | 0.20 |
| 4.7 | A | TR3A475(1)010(2)3000 | 0.5 | 6 | 3.000 | 0.16 |
| 4.7 | A | TR3A475(1)010(2)1500 | 0.5 | 6 | 1.500 | 0.22 |
| 4.7 | A | TR3A475(1)010(2)1400 | 0.5 | 6 | 1.400 | 0.23 |
| 4.7 | A | TR3A475(1)010(2)1000 | 0.5 | 6 | 1.000 | 0.27 |
| 6.8 | A | TR3A685(1)010(2)1800 | 0.7 | 6 | 1.800 | 0.20 |
| 6.8 | A | TR3A685(1)010(2)3000 | 0.7 | 6 | 3.000 | 0.16 |
| 10 | A | TR3A106(1)010(2)2000 | 1.0 | 6 | 2.000 | 0.19 |
| 10 | A | TR3A106(1)010(2)1800 | 1.0 | 6 | 1.800 | 0.20 |
| 10 | A | TR3A106(1)010(2)1000 | 1.0 | 6 | 1.000 | 0.27 |
| 10 | A | TR3A106(1)010(2)0900 | 1.0 | 6 | 0.900 | 0.29 |
| 10 | B | TR3B106(1)010(2)1000 | 1.0 | 6 | 1.000 | 0.29 |
| 10 | B | TR3B106(1)010(2)0800 | 1.0 | 6 | 0.800 | 0.33 |
| 10 | B | TR3B106(1)010(2)0750 | 1.0 | 6 | 0.750 | 0.34 |
| 15 | A | TR3A156(1)010(2)2000 | 1.5 | 6 | 2.000 | 0.19 |

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|---|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 10 V_{DC} AT + 85 °C; 7 V_{DC} AT 125 °C | | | | | | |
| 15 | A | TR3A156(1)010(2)1000 | 1.5 | 6 | 1.000 | 0.27 |
| 15 | B | TR3B156(1)010(2)0600 | 1.5 | 6 | 0.600 | 0.38 |
| 15 | B | TR3B156(1)010(2)0450 | 1.5 | 6 | 0.450 | 0.43 |
| 15 | B | TR3B156(1)010(2)0700 | 1.5 | 6 | 0.700 | 0.35 |
| 22 | A | TR3A226(1)010(2)1500 | 2.2 | 8 | 1.500 | 0.22 |
| 22 | A | TR3A226(1)010(2)1000 | 2.2 | 8 | 1.000 | 0.27 |
| 22 | A | TR3A226(1)010(2)0900 | 2.2 | 8 | 0.900 | 0.29 |
| 22 | A | TR3A226(1)010(2)0800 | 2.2 | 8 | 0.800 | 0.31 |
| 22 | B | TR3B226(1)010(2)1000 | 2.2 | 6 | 1.000 | 0.29 |
| 22 | B | TR3B226(1)010(2)0700 | 2.2 | 6 | 0.700 | 0.35 |
| 22 | B | TR3B226(1)010(2)0500 | 2.2 | 6 | 0.500 | 0.41 |
| 22 | B | TR3B226(1)010(2)0400 | 2.2 | 6 | 0.400 | 0.46 |
| 22 | C | TR3C226(1)010(2)0400 | 2.2 | 6 | 0.400 | 0.52 |
| 22 | C | TR3C226(1)010(2)0345 | 2.2 | 6 | 0.345 | 0.56 |
| 22 | C | TR3C226(1)010(2)0300 | 2.2 | 6 | 0.300 | 0.61 |
| 33 | B | TR3B336(1)010(2)0425 | 3.3 | 6 | 0.425 | 0.45 |
| 33 | B | TR3B336(1)010(2)1400 | 3.3 | 6 | 1.400 | 0.25 |
| 33 | B | TR3B336(1)010(2)0650 | 3.3 | 6 | 0.650 | 0.36 |
| 33 | B | TR3B336(1)010(2)0600 | 3.3 | 6 | 0.600 | 0.38 |
| 33 | B | TR3B336(1)010(2)0500 | 3.3 | 6 | 0.500 | 0.41 |
| 33 | B | TR3B336(1)010(2)0300 | 3.3 | 6 | 0.300 | 0.53 |
| 33 | C | TR3C336(1)010(2)0375 | 3.3 | 6 | 0.375 | 0.54 |
| 33 | C | TR3C336(1)010(2)0300 | 3.3 | 6 | 0.300 | 0.61 |
| 47 | B | TR3B476(1)010(2)0600 | 4.7 | 6 | 0.600 | 0.38 |
| 47 | B | TR3B476(1)010(2)0500 | 4.7 | 6 | 0.500 | 0.41 |
| 47 | B | TR3B476(1)010(2)0350 | 4.7 | 6 | 0.350 | 0.49 |
| 47 | B | TR3B476(1)010(2)0650 | 4.7 | 6 | 0.650 | 0.36 |
| 47 | C | TR3C476(1)010(2)0200 | 4.7 | 6 | 0.200 | 0.74 |
| 47 | C | TR3C476(1)010(2)0350 | 4.7 | 6 | 0.350 | 0.56 |
| 47 | C | TR3C476(1)010(2)0300 | 4.7 | 6 | 0.300 | 0.61 |
| 47 | D | TR3D476(1)010(2)0220 | 4.7 | 6 | 0.220 | 0.83 |
| 47 | D | TR3D476(1)010(2)0200 | 4.7 | 6 | 0.200 | 0.87 |
| 47 | D | TR3D476(1)010(2)0140 | 4.7 | 6 | 0.140 | 1.04 |
| 47 | D | TR3D476(1)010(2)0135 | 4.7 | 6 | 0.135 | 1.05 |
| 47 | D | TR3D476(1)010(2)0100 | 4.7 | 6 | 0.100 | 1.22 |
| 68 | B | TR3B686(1)010(2)1500 | 6.8 | 14 | 1.500 | 0.24 |
| 68 | B | TR3B686(1)010(2)0900 | 6.8 | 14 | 0.900 | 0.31 |
| 68 | B | TR3B686(1)010(2)0750 | 6.8 | 14 | 0.750 | 0.34 |
| 68 | B | TR3B686(1)010(2)0600 | 6.8 | 14 | 0.600 | 0.38 |
| 68 | C | TR3C686(1)010(2)0200 | 6.8 | 6 | 0.200 | 0.74 |
| 68 | C | TR3C686(1)010(2)0300 | 6.8 | 6 | 0.300 | 0.61 |
| 68 | C | TR3C686(1)010(2)0275 | 6.8 | 6 | 0.275 | 0.63 |
| 68 | C | TR3C686(1)010(2)0225 | 6.8 | 6 | 0.225 | 0.70 |
| 68 | D | TR3D686(1)010(2)0200 | 6.8 | 6 | 0.200 | 0.87 |
| 68 | D | TR3D686(1)010(2)0150 | 6.8 | 6 | 0.150 | 1.00 |
| 68 | D | TR3D686(1)010(2)0100 | 6.8 | 6 | 0.100 | 1.22 |
| 68 | D | TR3D686(1)010(3)0070 | 6.8 | 6 | 0.070 | 1.46 |

Notes

- Part number definitions:
 - (1) Capacitance tolerance codes: K, M
 - (2) Terminations and packaging codes: C, D, E, F
 - (3) Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|---|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 10 V_{DC} AT + 85 °C; 7 V_{DC} AT 125 °C | | | | | | |
| 68 | E | TR3E686(1)010(2)0150 | 6.8 | 4 | 0.150 | 1.05 |
| 68 | V | TR3V686(1)010(3)0700 | 6.8 | 6 | 0.700 | 0.42 |
| 68 | V | TR3V686(1)010(3)0300 | 6.8 | 6 | 0.300 | 0.65 |
| 68 | V | TR3V686(1)010(3)0200 | 6.8 | 6 | 0.200 | 0.79 |
| 68 | V | TR3V686(1)010(3)0140 | 6.8 | 6 | 0.140 | 0.94 |
| 68 | V | TR3V686(1)010(3)0100 | 6.8 | 6 | 0.100 | 1.12 |
| 100 | B | TR3B107M010(2)1400 | 10.0 | 25 | 1.400 | 0.25 |
| 100 | C | TR3C107(1)010(2)0200 | 10.0 | 8 | 0.200 | 0.74 |
| 100 | C | TR3C107(1)010(2)0150 | 10.0 | 8 | 0.150 | 0.86 |
| 100 | C | TR3C107(1)010(2)0100 | 10.0 | 8 | 0.100 | 1.05 |
| 100 | D | TR3D107(1)010(2)0150 | 10.0 | 6 | 0.150 | 1.00 |
| 100 | D | TR3D107(1)010(2)0100 | 10.0 | 6 | 0.100 | 1.22 |
| 100 | D | TR3D107(1)010(2)0080 | 10.0 | 6 | 0.080 | 1.37 |
| 100 | D | TR3D107(1)010(3)0070 | 10.0 | 6 | 0.070 | 1.52 |
| 100 | D | TR3D107(1)010(3)0065 | 10.0 | 6 | 0.065 | 1.46 |
| 100 | D | TR3D107(1)010(3)0050 | 10.0 | 6 | 0.050 | 1.73 |
| 100 | E | TR3E107(1)010(2)0125 | 10.0 | 6 | 0.125 | 1.15 |
| 100 | E | TR3E107(1)010(2)0150 | 10.0 | 6 | 0.150 | 1.05 |
| 100 | E | TR3E107(1)010(2)0100 | 10.0 | 6 | 0.100 | 1.28 |
| 100 | V | TR3V107(1)010(3)0400 | 10.0 | 8 | 0.400 | 0.56 |
| 100 | V | TR3V107(1)010(3)0200 | 10.0 | 8 | 0.200 | 0.79 |
| 100 | V | TR3V107(1)010(3)0150 | 10.0 | 8 | 0.150 | 0.91 |
| 150 | C | TR3C157M010(2)0500 | 15.0 | 20 | 0.500 | 0.47 |
| 150 | D | TR3D157(1)010(2)0150 | 15.0 | 8 | 0.150 | 1.00 |
| 150 | D | TR3D157(1)010(2)0100 | 15.0 | 8 | 0.100 | 1.22 |
| 150 | D | TR3D157(1)010(2)0075 | 15.0 | 8 | 0.075 | 1.41 |
| 150 | D | TR3D157(1)010(3)0070 | 15.0 | 8 | 0.070 | 1.46 |
| 150 | D | TR3D157(1)010(3)0050 | 15.0 | 8 | 0.050 | 1.73 |
| 150 | E | TR3E157(1)010(2)0100 | 15.0 | 8 | 0.100 | 1.28 |
| 150 | E | TR3E157(1)010(2)0080 | 15.0 | 8 | 0.080 | 1.44 |
| 220 | D | TR3D227(1)010(2)0150 | 22.0 | 8 | 0.150 | 1.00 |
| 220 | D | TR3D227(1)010(2)0125 | 22.0 | 8 | 0.125 | 1.10 |
| 220 | D | TR3D227(1)010(2)0100 | 22.0 | 8 | 0.100 | 1.22 |
| 220 | D | TR3D227(1)010(3)0050 | 22.0 | 8 | 0.050 | 1.73 |
| 220 | E | TR3E227(1)010(2)0150 | 22.0 | 8 | 0.150 | 1.05 |
| 220 | E | TR3E227(1)010(2)0100 | 22.0 | 8 | 0.100 | 1.28 |
| 220 | E | TR3E227(1)010(3)0070 | 22.0 | 8 | 0.070 | 1.54 |
| 220 | E | TR3E227(1)010(3)0060 | 22.0 | 8 | 0.060 | 1.66 |
| 220 | E | TR3E227(1)010(3)0050 | 22.0 | 8 | 0.050 | 1.82 |
| 220 | V | TR3V227(1)010(3)0200 | 30.0 | 12 | 0.200 | 0.79 |
| 220 | V | TR3V227(1)010(3)0150 | 30.0 | 12 | 0.150 | 0.91 |
| 330 | D | TR3D337(1)010(2)0150 | 33.0 | 15 | 0.150 | 1.00 |
| 330 | D | TR3D337(1)010(2)0125 | 33.0 | 15 | 0.125 | 1.10 |
| 330 | D | TR3D337(1)010(2)0100 | 33.0 | 15 | 0.100 | 1.22 |
| 330 | E | TR3E337(1)010(2)0100 | 33.0 | 10 | 0.100 | 1.28 |
| 330 | E | TR3E337(1)010(3)0060 | 33.0 | 10 | 0.060 | 1.66 |
| 330 | W | TR3W337(1)010(3)0100 | 33.0 | 10 | 0.100 | 1.58 |
| 330 | W | TR3W337(1)010(3)0060 | 33.0 | 10 | 0.060 | 2.04 |
| 470 | E | TR3E477(1)010(2)0200 | 47.0 | 15 | 0.200 | 0.91 |

Notes

- Part number definitions:
 - (1) Capacitance tolerance codes: K, M
 - (2) Terminations and packaging codes: C, D, E, F
 - (3) Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 10 V_{DC} AT + 85 °C; 7 V_{DC} AT 125 °C | | | | | | |
| 470 | E | TR3E477(1)010(2)0150 | 47.0 | 15 | 0.150 | 1.05 |
| 470 | E | TR3E477(1)010(2)0100 | 47.0 | 15 | 0.100 | 1.28 |
| 470 | E | TR3E477(1)010(3)0075 | 47.0 | 15 | 0.075 | 1.48 |
| 470 | W | TR3W477M010(3)0100 | 47.0 | 20 | 0.100 | 1.58 |
| 470 | W | TR3W477M010(3)0060 | 47.0 | 20 | 0.060 | 2.04 |
| 470 | W | TR3W477M010(3)0050 | 47.0 | 20 | 0.050 | 2.24 |
| 16 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C | | | | | | |
| 2.2 | A | TR3A225(1)016(2)4000 | 0.5 | 6 | 4.000 | 0.14 |
| 2.2 | A | TR3A225(1)016(2)3500 | 0.5 | 6 | 3.500 | 0.15 |
| 2.2 | A | TR3A225(1)016(2)1800 | 0.5 | 6 | 1.800 | 0.20 |
| 3.3 | A | TR3A335(1)016(2)4000 | 0.5 | 6 | 4.000 | 0.14 |
| 3.3 | A | TR3A335(1)016(2)3500 | 0.5 | 6 | 3.500 | 0.15 |
| 4.7 | A | TR3A475(1)016(2)3000 | 0.8 | 6 | 3.000 | 0.16 |
| 4.7 | A | TR3A475(1)016(2)2500 | 0.8 | 6 | 2.500 | 0.17 |
| 4.7 | A | TR3A475(1)016(2)2000 | 0.8 | 6 | 2.000 | 0.19 |
| 4.7 | A | TR3A475(1)016(2)1500 | 0.8 | 6 | 1.500 | 0.22 |
| 4.7 | B | TR3B475(1)016(2)1500 | 0.8 | 6 | 1.500 | 0.24 |
| 4.7 | B | TR3B475(1)016(2)0800 | 0.8 | 6 | 0.800 | 0.33 |
| 6.8 | A | TR3A685(1)016(2)3000 | 1.1 | 6 | 3.000 | 0.16 |
| 6.8 | A | TR3A685(1)016(2)1500 | 1.1 | 6 | 1.500 | 0.22 |
| 6.8 | B | TR3B685(1)016(2)1200 | 1.1 | 6 | 1.200 | 0.27 |
| 6.8 | B | TR3B685(1)016(2)0600 | 1.1 | 6 | 0.600 | 0.38 |
| 10 | A | TR3A106(1)016(2)1700 | 1.6 | 6 | 1.700 | 0.21 |
| 10 | B | TR3B106(1)016(2)0800 | 1.6 | 6 | 0.800 | 0.33 |
| 10 | B | TR3B106(1)016(2)0500 | 1.6 | 6 | 0.500 | 0.41 |
| 10 | C | TR3C106(1)016(2)0600 | 1.6 | 6 | 0.600 | 0.43 |
| 10 | C | TR3C106(1)016(2)0500 | 1.6 | 6 | 0.500 | 0.47 |
| 10 | C | TR3C106(1)016(2)0450 | 1.6 | 6 | 0.450 | 0.49 |
| 15 | B | TR3B156(1)016(2)0800 | 2.4 | 6 | 0.800 | 0.33 |
| 15 | B | TR3B156(1)016(2)0500 | 2.4 | 6 | 0.500 | 0.41 |
| 15 | C | TR3C156(1)016(2)0400 | 2.4 | 6 | 0.400 | 0.52 |
| 22 | B | TR3B226(1)016(2)1000 | 3.5 | 6 | 1.000 | 0.29 |
| 22 | B | TR3B226(1)016(2)0700 | 3.5 | 6 | 0.700 | 0.35 |
| 22 | B | TR3B226(1)016(2)0600 | 3.5 | 6 | 0.600 | 0.38 |
| 22 | B | TR3B226(1)016(2)0400 | 3.5 | 6 | 0.400 | 0.46 |
| 22 | C | TR3C226(1)016(2)0375 | 3.5 | 6 | 0.375 | 0.54 |
| 22 | C | TR3C226(1)016(2)0350 | 3.5 | 6 | 0.350 | 0.56 |
| 22 | D | TR3D226(1)016(2)0250 | 3.5 | 6 | 0.250 | 0.77 |
| 33 | B | TR3B336(1)016(2)0700 | 5.3 | 6 | 0.700 | 0.35 |
| 33 | B | TR3B336(1)016(2)0500 | 5.3 | 6 | 0.500 | 0.41 |
| 33 | B | TR3B336(1)016(2)0350 | 5.3 | 6 | 0.350 | 0.49 |
| 33 | C | TR3C336(1)016(2)0300 | 5.3 | 6 | 0.300 | 0.61 |
| 33 | C | TR3C336(1)016(2)0225 | 5.3 | 6 | 0.225 | 0.70 |
| 33 | D | TR3D336(1)016(2)0250 | 5.3 | 6 | 0.250 | 0.77 |
| 33 | D | TR3D336(1)016(2)0225 | 5.3 | 4 | 0.225 | 0.82 |
| 33 | D | TR3D336(1)016(2)0150 | 5.3 | 6 | 0.150 | 1.00 |

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 16 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C | | | | | | |
| 47 | C | TR3C476(1)016(2)0500 | 7.5 | 6 | 0.500 | 0.47 |
| 47 | C | TR3C476(1)016(2)0350 | 7.5 | 6 | 0.350 | 0.56 |
| 47 | C | TR3C476(1)016(2)0300 | 7.5 | 6 | 0.300 | 0.61 |
| 47 | D | TR3D476(1)016(2)0200 | 7.5 | 6 | 0.200 | 0.87 |
| 47 | D | TR3D476(1)016(2)0150 | 7.5 | 6 | 0.150 | 1.00 |
| 47 | D | TR3D476(1)016(2)0100 | 7.5 | 6 | 0.100 | 1.22 |
| 68 | D | TR3D686(1)016(2)0150 | 10.9 | 6 | 0.150 | 1.00 |
| 68 | D | TR3D686(1)016(2)0100 | 10.9 | 6 | 0.100 | 1.22 |
| 68 | D | TR3D686(1)016(3)0070 | 10.9 | 6 | 0.070 | 1.46 |
| 100 | D | TR3D107(1)016(2)0150 | 16.0 | 8 | 0.150 | 1.00 |
| 100 | D | TR3D107(1)016(2)0125 | 16.0 | 8 | 0.125 | 1.10 |
| 100 | D | TR3D107(1)016(2)0100 | 16.0 | 8 | 0.100 | 1.22 |
| 100 | D | TR3D107(1)016(3)0075 | 16.0 | 8 | 0.075 | 1.41 |
| 100 | E | TR3E107(1)016(2)0150 | 16.0 | 8 | 0.150 | 1.05 |
| 100 | E | TR3E107(1)016(2)0125 | 16.0 | 8 | 0.125 | 1.15 |
| 100 | E | TR3E107(1)016(2)0100 | 16.0 | 8 | 0.100 | 1.28 |
| 150 | D | TR3D157(1)016(2)0400 | 24.0 | 8 | 0.400 | 0.61 |
| 150 | D | TR3D157(1)016(2)0150 | 24.0 | 8 | 0.150 | 1.00 |
| 150 | D | TR3D157(1)016(2)0125 | 24.0 | 8 | 0.125 | 1.10 |
| 150 | D | TR3D157(1)016(2)0100 | 24.0 | 8 | 0.100 | 1.22 |
| 150 | D | TR3D157(1)016(2)0085 | 24.0 | 8 | 0.085 | 1.33 |
| 150 | D | TR3D157(1)016(3)0075 | 24.0 | 8 | 0.075 | 1.41 |
| 150 | D | TR3D157(1)016(3)0060 | 24.0 | 8 | 0.060 | 1.58 |
| 150 | E | TR3E157(1)016(2)0400 | 24.0 | 8 | 0.400 | 0.64 |
| 150 | E | TR3E157(1)016(2)0150 | 24.0 | 8 | 0.150 | 1.05 |
| 150 | E | TR3E157(1)016(2)0100 | 24.0 | 8 | 0.100 | 1.28 |
| 150 | E | TR3E157(1)016(2)0075 | 24.0 | 8 | 0.075 | 1.48 |
| 150 | E | TR3E157(1)016(2)0060 | 24.0 | 8 | 0.060 | 1.66 |
| 220 | E | TR3E227(1)016(2)0150 | 35.2 | 14 | 0.150 | 1.05 |
| 220 | E | TR3E227(1)016(2)0125 | 35.2 | 14 | 0.125 | 1.15 |
| 220 | E | TR3E227(1)016(2)0100 | 35.2 | 14 | 0.100 | 1.28 |
| 20 V_{DC} AT + 85 °C; 13 V_{DC} AT + 125 °C | | | | | | |
| 1.0 | A | TR3A105(1)020(2)5500 | 0.5 | 4 | 5.500 | 0.12 |
| 1.0 | A | TR3A105(1)020(2)3000 | 0.5 | 4 | 3.000 | 0.16 |
| 2.2 | A | TR3A225(1)020(2)4000 | 0.5 | 6 | 4.000 | 0.14 |
| 2.2 | A | TR3A225(1)020(2)3000 | 0.5 | 6 | 3.000 | 0.16 |
| 3.3 | A | TR3A335(1)020(2)4000 | 0.7 | 6 | 4.000 | 0.14 |
| 3.3 | B | TR3B335(1)020(2)1300 | 0.7 | 6 | 1.300 | 0.26 |
| 4.7 | A | TR3A475(1)020(2)3500 | 0.9 | 6 | 3.500 | 0.15 |
| 4.7 | A | TR3A475(1)020(2)1800 | 0.9 | 6 | 1.800 | 0.20 |
| 4.7 | B | TR3B475(1)020(2)1000 | 0.9 | 6 | 1.000 | 0.29 |
| 4.7 | B | TR3B475(1)020(2)0750 | 0.9 | 6 | 0.750 | 0.34 |
| 6.8 | A | TR3A685(1)020(2)3200 | 1.4 | 6 | 3.200 | 0.15 |
| 6.8 | A | TR3A685(1)020(2)3000 | 1.4 | 6 | 3.000 | 0.16 |
| 6.8 | A | TR3A685(1)020(2)2600 | 1.4 | 6 | 2.600 | 0.17 |
| 6.8 | B | TR3B685(1)020(2)1000 | 1.4 | 6 | 1.000 | 0.29 |
| 6.8 | B | TR3B685(1)020(2)0600 | 1.4 | 6 | 0.600 | 0.38 |
| 10 | B | TR3B106(1)020(2)1000 | 2.0 | 6 | 1.000 | 0.29 |
| 10 | B | TR3B106(1)020(2)0500 | 2.0 | 6 | 0.500 | 0.41 |
| 10 | C | TR3C106(1)020(2)0700 | 2.0 | 6 | 0.700 | 0.40 |

Notes

- Part number definitions:
 - (1) Capacitance tolerance codes: K, M
 - (2) Terminations and packaging codes: C, D, E, F
 - (3) Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | | |
|---|--------------|----------------------|--|--|---|--|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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 | | | | | | | |
| 10 | C | TR3C106(1)020(2)0500 | 2.0 | 6 | 0.500 | 0.47 | |
| 10 | C | TR3C106(1)020(2)0475 | 2.0 | 6 | 0.475 | 0.48 | |
| 10 | C | TR3C106(1)020(2)0450 | 2.0 | 6 | 0.450 | 0.49 | |
| 10 | C | TR3C106(1)020(2)0400 | 2.0 | 6 | 0.400 | 0.52 | |
| 15 | B | TR3B156(1)020(2)1000 | 3.0 | 6 | 1.000 | 0.29 | |
| 15 | B | TR3B156(1)020(2)0500 | 3.0 | 6 | 0.500 | 0.41 | |
| 15 | C | TR3C156(1)020(2)0400 | 3.0 | 6 | 0.400 | 0.52 | |
| 22 | B | TR3B226(1)020(2)0800 | 4.4 | 6 | 0.800 | 0.33 | |
| 22 | B | TR3B226(1)020(2)0600 | 4.4 | 6 | 0.600 | 0.38 | |
| 22 | B | TR3B226(1)020(2)0400 | 4.4 | 6 | 0.400 | 0.46 | |
| 22 | C | TR3C226(1)020(2)0400 | 4.4 | 6 | 0.400 | 0.52 | |
| 22 | C | TR3C226(1)020(2)0375 | 4.4 | 6 | 0.375 | 0.54 | |
| 22 | D | TR3D226(1)020(2)0300 | 4.4 | 6 | 0.300 | 0.71 | |
| 22 | D | TR3D226(1)020(2)0225 | 3.5 | 4 | 0.225 | 0.82 | |
| 22 | D | TR3D226(1)020(2)0200 | 4.4 | 6 | 0.200 | 0.87 | |
| 33 | C | TR3C336(1)020(2)0350 | 6.6 | 6 | 0.350 | 0.56 | |
| 33 | C | TR3C336(1)020(2)0300 | 6.6 | 6 | 0.300 | 0.61 | |
| 33 | C | TR3C336(1)020(2)0200 | 6.6 | 6 | 0.200 | 0.74 | |
| 33 | D | TR3C336(1)020(2)0400 | 6.6 | 6 | 0.400 | 0.61 | |
| 33 | D | TR3D336(1)020(2)0250 | 6.6 | 6 | 0.250 | 0.77 | |
| 33 | D | TR3D336(1)020(2)0200 | 6.6 | 6 | 0.200 | 0.87 | |
| 47 | D | TR3D476(1)020(2)0200 | 9.4 | 6 | 0.200 | 0.87 | |
| 47 | D | TR3D476(1)020(2)0175 | 9.4 | 6 | 0.175 | 0.93 | |
| 47 | D | TR3D476(1)020(2)0150 | 9.4 | 6 | 0.150 | 1.00 | |
| 47 | D | TR3D476(1)020(3)0100 | 9.4 | 6 | 0.100 | 1.22 | |
| 47 | E | TR3E476(1)020(2)0150 | 9.4 | 6 | 0.150 | 1.05 | |
| 47 | E | TR3E476(1)020(3)0125 | 9.4 | 6 | 0.125 | 1.15 | |
| 68 | D | TR3D686(1)020(2)0200 | 13.6 | 6 | 0.200 | 0.87 | |
| 68 | D | TR3D686(1)020(2)0175 | 13.6 | 6 | 0.175 | 0.93 | |
| 68 | D | TR3D686(1)020(2)0150 | 13.6 | 6 | 0.150 | 1.00 | |
| 68 | D | TR3D686(1)020(2)0115 | 13.6 | 6 | 0.115 | 1.14 | |
| 68 | E | TR3E686(1)020(2)0200 | 13.6 | 6 | 0.200 | 0.91 | |
| 68 | E | TR3E686(1)020(2)0150 | 13.6 | 6 | 0.150 | 1.05 | |
| 68 | E | TR3E686(1)020(2)0125 | 13.6 | 6 | 0.125 | 1.15 | |
| 68 | E | TR3E686(1)020(2)0120 | 13.6 | 6 | 0.120 | 1.17 | |
| 100 | D | TR3D107(1)020(2)0200 | 20.0 | 8 | 0.200 | 0.87 | |
| 100 | D | TR3D107(1)020(2)0150 | 20.0 | 8 | 0.150 | 1.00 | |
| 100 | D | TR3D107(1)020(2)0100 | 20.0 | 8 | 0.100 | 1.22 | |
| 100 | D | TR3D107(1)020(3)0085 | 20.0 | 8 | 0.085 | 1.33 | |
| 100 | D | TR3D107(1)020(3)0080 | 20.0 | 8 | 0.080 | 1.37 | |
| 100 | E | TR3E107(1)020(2)0200 | 20.0 | 8 | 0.200 | 0.91 | |
| 100 | E | TR3E107(1)020(2)0150 | 20.0 | 8 | 0.150 | 1.05 | |
| 100 | E | TR3E107(1)020(2)0100 | 20.0 | 8 | 0.100 | 1.28 | |
| 100 | W | TR3W107(1)020(3)0200 | 20.0 | 8 | 0.200 | 1.12 | |
| 100 | W | TR3W107(1)020(3)0100 | 20.0 | 8 | 0.100 | 1.58 | |
| 100 | W | TR3W107(1)020(3)0080 | 20.0 | 8 | 0.080 | 1.77 | |
| 100 | W | TR3W107(1)020(3)0060 | 20.0 | 8 | 0.060 | 2.04 | |
| 150 | W | TR3W157(1)020(3)0200 | 30.0 | 10 | 0.200 | 1.12 | |
| 150 | W | TR3W157(1)020(3)0150 | 30.0 | 10 | 0.150 | 1.29 | |
| 150 | W | TR3W157(1)020(3)0100 | 30.0 | 10 | 0.100 | 1.58 | |
| 150 | W | TR3W157(1)020(3)0080 | 30.0 | 10 | 0.080 | 1.77 | |

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|---|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 25 V _{DC} AT + 85 °C; 17 V _{DC} AT + 125 °C | | | | | | |
| 1.0 | A | TR3A105(1)025(2)4000 | 0.5 | 4 | 4.000 | 0.14 |
| 1.5 | A | TR3A155(1)025(2)4000 | 0.5 | 6 | 4.000 | 0.14 |
| 1.5 | A | TR3A155(1)025(2)3000 | 0.5 | 6 | 3.000 | 0.16 |
| 2.2 | A | TR3A225(1)025(2)4000 | 0.6 | 6 | 4.000 | 0.14 |
| 2.2 | B | TR3B225(1)025(2)1500 | 0.6 | 6 | 1.500 | 0.24 |
| 2.2 | B | TR3B225(1)025(2)1200 | 0.6 | 6 | 1.200 | 0.27 |
| 2.2 | B | TR3B225(1)025(2)0900 | 0.6 | 6 | 0.900 | 0.31 |
| 3.3 | A | TR3A335(1)025(2)3500 | 0.8 | 6 | 3.500 | 0.15 |
| 3.3 | A | TR3A335(1)025(2)3000 | 0.8 | 6 | 3.000 | 0.16 |
| 3.3 | B | TR3B335(1)025(2)2000 | 0.8 | 6 | 2.000 | 0.21 |
| 3.3 | B | TR3B335(1)025(2)1500 | 0.8 | 6 | 1.500 | 0.24 |
| 3.3 | B | TR3B335(1)025(2)0750 | 0.8 | 6 | 0.750 | 0.34 |
| 4.7 | A | TR3A475(1)025(2)3500 | 1.2 | 6 | 3.500 | 0.15 |
| 4.7 | A | TR3A475(1)025(2)3000 | 1.2 | 6 | 3.000 | 0.16 |
| 4.7 | B | TR3B475(1)025(2)1500 | 1.2 | 6 | 1.500 | 0.24 |
| 4.7 | B | TR3B475(1)025(2)1000 | 1.2 | 6 | 1.000 | 0.29 |
| 4.7 | B | TR3B475(1)025(2)0900 | 1.2 | 6 | 0.900 | 0.10 |
| 4.7 | B | TR3B475(1)025(2)0700 | 1.2 | 6 | 0.700 | 0.35 |
| 4.7 | C | TR3C475(1)025(2)0600 | 1.2 | 6 | 0.600 | 0.43 |
| 4.7 | C | TR3C475(1)025(2)0525 | 1.2 | 6 | 0.525 | 0.46 |
| 6.8 | B | TR3B685(1)025(2)2000 | 1.7 | 6 | 2.000 | 0.21 |
| 6.8 | B | TR3B685(1)025(2)1500 | 1.7 | 6 | 1.500 | 0.24 |
| 6.8 | B | TR3B685(1)025(2)1200 | 1.7 | 6 | 1.200 | 0.27 |
| 6.8 | B | TR3B685(1)025(2)0700 | 1.7 | 6 | 0.700 | 0.35 |
| 6.8 | B | TR3B685(1)025(3)0500 | 1.7 | 6 | 0.500 | 0.41 |
| 6.8 | B | TR3B685(1)025(3)0400 | 1.7 | 6 | 0.400 | 0.46 |
| 6.8 | C | TR3C685(1)025(2)0600 | 1.7 | 6 | 0.600 | 0.43 |
| 6.8 | C | TR3C685(1)025(2)0500 | 1.7 | 6 | 0.500 | 0.47 |
| 10 | B | TR3B106(1)025(2)1300 | 2.5 | 6 | 1.300 | 0.26 |
| 10 | B | TR3B106(1)025(2)1100 | 2.5 | 6 | 1.100 | 0.28 |
| 10 | B | TR3B106(1)025(2)0450 | 2.5 | 6 | 0.450 | 0.43 |
| 10 | C | TR3C106(1)025(2)0600 | 2.5 | 6 | 0.600 | 0.43 |
| 10 | C | TR3C106(1)025(2)0500 | 2.5 | 6 | 0.500 | 0.47 |
| 10 | C | TR3C106(1)025(2)0450 | 2.5 | 6 | 0.450 | 0.49 |
| 10 | C | TR3C106(1)025(2)0300 | 2.5 | 6 | 0.300 | 0.61 |
| 10 | D | TR3D106(1)025(2)0400 | 2.5 | 6 | 0.400 | 0.61 |
| 10 | D | TR3D106(1)025(2)0300 | 2.5 | 6 | 0.300 | 0.71 |
| 15 | B | TR3B156(1)025(2)1000 | 3.8 | 6 | 1.000 | 0.29 |
| 15 | B | TR3B156(1)025(2)0800 | 3.8 | 6 | 0.800 | 0.33 |
| 15 | B | TR3B156(1)025(2)0600 | 3.8 | 6 | 0.600 | 0.38 |
| 15 | C | TR3C156(1)025(2)0900 | 3.8 | 6 | 0.900 | 0.35 |
| 15 | C | TR3C156(1)025(2)0425 | 3.8 | 6 | 0.425 | 0.51 |
| 15 | D | TR3D156(1)025(2)0350 | 3.8 | 6 | 0.350 | 0.65 |
| 15 | D | TR3D156(1)025(2)0275 | 3.8 | 6 | 0.275 | 0.74 |
| 15 | D | TR3D156(1)025(2)0250 | 3.8 | 6 | 0.250 | 0.77 |
| 15 | D | TR3D156(1)025(2)0200 | 3.8 | 6 | 0.200 | 0.87 |
| 22 | C | TR3C226(1)025(2)1000 | 5.5 | 6 | 1.000 | 0.33 |

Notes

- Part number definitions:
 - (1) Capacitance tolerance codes: K, M
 - (2) Terminations and packaging codes: C, D, E, F
 - (3) Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | | |
|--|--------------|----------------------|--|--|---|--|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) | |
| 25 V_{DC} AT + 85 °C; 17 V_{DC} AT + 125 °C | | | | | | | |
| 22 | C | TR3C226(1)025(2)0900 | 5.5 | 6 | 0.900 | 0.35 | |
| 22 | C | TR3C226(1)025(2)0400 | 5.5 | 6 | 0.400 | 0.52 | |
| 22 | C | TR3C226(1)025(2)0425 | 5.5 | 6 | 0.425 | 0.51 | |
| 22 | C | TR3C226(1)025(2)0300 | 5.5 | 6 | 0.300 | 0.61 | |
| 22 | C | TR3C226(1)025(2)0275 | 5.5 | 6 | 0.275 | 0.63 | |
| 22 | C | TR3C226(1)025(2)0250 | 5.5 | 6 | 0.250 | 0.66 | |
| 22 | D | TR3D226(1)025(2)0300 | 5.5 | 6 | 0.300 | 0.71 | |
| 22 | D | TR3D226(1)025(2)0200 | 5.5 | 6 | 0.200 | 0.87 | |
| 22 | E | TR3E226(1)025(2)0300 | 5.5 | 6 | 0.300 | 0.74 | |
| 22 | E | TR3E226(1)025(2)0200 | 5.5 | 6 | 0.200 | 0.91 | |
| 22 | V | TR3V226(1)025(3)0500 | 5.5 | 6 | 0.500 | 0.50 | |
| 22 | V | TR3V226(1)025(3)0400 | 5.5 | 6 | 0.400 | 0.56 | |
| 22 | V | TR3V226(1)025(3)0250 | 5.5 | 6 | 0.250 | 0.71 | |
| 33 | D | TR3D336(1)025(2)0400 | 8.3 | 6 | 0.400 | 0.61 | |
| 33 | D | TR3D336(1)025(2)0300 | 8.3 | 6 | 0.300 | 0.71 | |
| 33 | D | TR3D336(1)025(2)0225 | 8.3 | 6 | 0.225 | 0.82 | |
| 33 | D | TR3D336(1)025(2)0200 | 8.3 | 6 | 0.200 | 0.87 | |
| 33 | E | TR3E336(1)025(2)0300 | 8.3 | 6 | 0.300 | 0.74 | |
| 33 | E | TR3E336(1)025(2)0200 | 8.3 | 6 | 0.200 | 0.91 | |
| 33 | E | TR3E336(1)025(2)0175 | 6.6 | 4 | 0.175 | 0.97 | |
| 47 | D | TR3D476(1)025(2)0350 | 11.8 | 8 | 0.350 | 0.65 | |
| 47 | D | TR3D476(1)025(2)0250 | 11.8 | 8 | 0.250 | 0.77 | |
| 47 | D | TR3D476(1)025(2)0200 | 11.8 | 8 | 0.200 | 0.87 | |
| 47 | D | TR3D476(1)025(2)0150 | 11.8 | 8 | 0.150 | 1.00 | |
| 47 | D | TR3D476(1)025(3)0125 | 11.8 | 8 | 0.125 | 1.10 | |
| 47 | D | TR3D476(1)025(3)0100 | 11.8 | 8 | 0.100 | 1.22 | |
| 47 | E | TR3E476(1)025(2)0300 | 11.8 | 6 | 0.300 | 0.74 | |
| 47 | E | TR3E476(1)025(2)0200 | 11.8 | 6 | 0.200 | 0.91 | |
| 47 | E | TR3E476(1)025(2)0150 | 11.8 | 8 | 0.150 | 1.05 | |
| 47 | E | TR3E476(1)025(3)0125 | 11.8 | 8 | 0.125 | 1.15 | |
| 47 | E | TR3E476(1)025(3)0100 | 11.8 | 8 | 0.100 | 1.28 | |
| 68 | E | TR3E686(1)025(2)0250 | 17.0 | 8 | 0.250 | 0.81 | |
| 68 | W | TR3W686(1)025(3)0200 | 17.0 | 6 | 0.200 | 1.12 | |
| 68 | W | TR3W686(1)025(3)0150 | 17.0 | 6 | 0.150 | 1.29 | |
| 68 | W | TR3W686(1)025(3)0095 | 17.0 | 6 | 0.095 | 1.62 | |
| 100 | W | TR3W107(1)025(3)0200 | 25.0 | 15 | 0.200 | 1.12 | |
| 100 | W | TR3W107(1)025(3)0150 | 25.0 | 15 | 0.150 | 1.29 | |
| 100 | W | TR3W107(1)025(3)0100 | 25.0 | 15 | 0.100 | 1.58 | |
| 35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C | | | | | | | |
| 0.47 | A | TR3A474(1)035(2)4000 | 0.5 | 4 | 4.000 | 0.14 | |
| 0.68 | A | TR3A684(1)035(2)6000 | 0.5 | 4 | 6.000 | 0.11 | |
| 0.68 | A | TR3A684(1)035(2)4000 | 0.5 | 4 | 4.000 | 0.14 | |
| 1.0 | A | TR3A105(1)035(2)6000 | 0.5 | 4 | 6.000 | 0.11 | |
| 1.0 | A | TR3A105(1)035(2)4000 | 0.5 | 4 | 4.000 | 0.14 | |
| 1.0 | A | TR3A105(1)035(2)3000 | 0.5 | 4 | 3.000 | 0.16 | |
| 1.0 | B | TR3B105(1)035(2)2000 | 0.5 | 4 | 2.000 | 0.21 | |
| 1.0 | B | TR3B105(1)035(2)1700 | 0.5 | 4 | 1.700 | 0.22 | |
| 1.0 | B | TR3B105(1)035(2)1500 | 0.5 | 4 | 1.500 | 0.24 | |
| 1.5 | B | TR3B155(1)035(2)3000 | 0.5 | 6 | 3.000 | 0.17 | |
| 1.5 | B | TR3B155(1)035(2)2000 | 0.5 | 6 | 2.000 | 0.21 | |

Notes

- Part number definitions:
 - (1) Capacitance tolerance codes: K, M
 - (2) Terminations and packaging codes: C, D, E, F
 - (3) Lead (Pb)-free terminations and packaging codes: C, D



| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE 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) |
| 35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C | | | | | | |
| 1.5 | C | TR3C155(1)035(2)2500 | 0.5 | 6 | 2.500 | 0.21 |
| 1.5 | C | TR3C155(1)035(2)0900 | 0.5 | 6 | 0.900 | 0.35 |
| 2.2 | B | TR3B225(1)035(2)2500 | 0.8 | 6 | 2.500 | 0.18 |
| 2.2 | B | TR3B225(1)035(2)2000 | 0.8 | 6 | 2.000 | 0.21 |
| 2.2 | B | TR3B225(1)035(2)1500 | 0.8 | 6 | 1.500 | 0.24 |
| 2.2 | C | TR3C225(1)035(2)1500 | 0.8 | 6 | 1.500 | 0.27 |
| 2.2 | C | TR3C225(1)035(2)0900 | 0.8 | 6 | 0.900 | 0.35 |
| 3.3 | B | TR3B335(1)035(2)1500 | 1.2 | 6 | 1.500 | 0.24 |
| 3.3 | B | TR3B335(1)035(2)1000 | 1.2 | 6 | 1.000 | 0.29 |
| 3.3 | C | TR3C335(1)035(2)0800 | 1.2 | 6 | 0.800 | 0.37 |
| 3.3 | C | TR3C335(1)035(2)0700 | 1.2 | 6 | 0.700 | 0.40 |
| 3.3 | C | TR3C335(1)035(2)0600 | 1.2 | 6 | 0.600 | 0.43 |
| 4.7 | B | TR3B475(1)035(2)1500 | 1.6 | 6 | 1.500 | 0.24 |
| 4.7 | B | TR3B475(1)035(2)1000 | 1.6 | 6 | 1.000 | 0.29 |
| 4.7 | B | TR3B475(1)035(2)0700 | 1.6 | 6 | 0.700 | 0.35 |
| 4.7 | C | TR3C475(1)035(2)0700 | 1.6 | 6 | 0.700 | 0.40 |
| 4.7 | C | TR3C475(1)035(2)0600 | 1.6 | 6 | 0.600 | 0.43 |
| 4.7 | C | TR3C475(1)035(2)0500 | 1.6 | 6 | 0.500 | 0.47 |
| 4.7 | D | TR3D475(1)035(2)0700 | 1.6 | 6 | 0.700 | 0.46 |
| 6.8 | C | TR3C685(1)035(2)0900 | 2.4 | 6 | 0.900 | 0.35 |
| 6.8 | C | TR3C685(1)035(2)0475 | 2.4 | 6 | 0.475 | 0.48 |
| 6.8 | D | TR3D685(1)035(2)0500 | 2.4 | 6 | 0.500 | 0.55 |
| 6.8 | D | TR3D685(1)035(2)0400 | 2.4 | 6 | 0.400 | 0.61 |
| 6.8 | D | TR3D685(1)035(2)0300 | 2.4 | 6 | 0.300 | 0.71 |
| 6.8 | E | TR3E685(1)035(2)0300 | 2.4 | 4 | 0.300 | 0.74 |
| 10 | C | TR3C106(1)035(2)1200 | 3.5 | 6 | 1.200 | 0.30 |
| 10 | C | TR3C106(1)035(2)0450 | 3.5 | 6 | 0.450 | 0.49 |
| 10 | D | TR3D106(1)035(2)0400 | 3.5 | 6 | 0.400 | 0.61 |
| 10 | D | TR3D106(1)035(2)0300 | 3.5 | 6 | 0.300 | 0.71 |
| 10 | D | TR3D106(1)035(2)0260 | 3.5 | 6 | 0.260 | 0.76 |
| 10 | D | TR3D106(1)035(2)0250 | 3.5 | 6 | 0.250 | 0.77 |
| 10 | D | TR3D106(1)035(2)0200 | 3.5 | 6 | 0.200 | 0.87 |
| 10 | D | TR3D106(1)035(3)0135 | 3.5 | 6 | 0.135 | 1.05 |
| 10 | D | TR3D106(1)035(3)0125 | 3.5 | 6 | 0.125 | 1.10 |
| 10 | E | TR3E106(1)035(2)0250 | 3.5 | 6 | 0.250 | 0.81 |
| 10 | E | TR3E106(1)035(2)0200 | 3.5 | 6 | 0.200 | 0.91 |
| 15 | D | TR3D156(1)035(2)0350 | 5.3 | 6 | 0.350 | 0.65 |
| 15 | D | TR3D156(1)035(2)0300 | 5.3 | 6 | 0.300 | 0.71 |
| 15 | D | TR3D156(1)035(2)0260 | 5.3 | 6 | 0.260 | 0.76 |
| 15 | D | TR3D156(1)035(2)0225 | 5.3 | 6 | 0.225 | 0.82 |
| 15 | D | TR3D156(1)035(2)0200 | 5.3 | 6 | 0.200 | 0.87 |
| 15 | D | TR3D156(1)035(2)0150 | 5.3 | 6 | 0.150 | 1.00 |
| 15 | E | TR3E156(1)035(2)0300 | 5.3 | 6 | 0.300 | 0.74 |
| 15 | E | TR3E156(1)035(2)0225 | 5.3 | 6 | 0.225 | 0.86 |
| 15 | E | TR3E156(1)035(2)0200 | 5.3 | 6 | 0.200 | 0.91 |
| 15 | E | TR3E156(1)035(2)0150 | 5.3 | 6 | 0.150 | 1.05 |
| 22 | D | TR3D226(1)035(2)0400 | 7.7 | 6 | 0.400 | 0.61 |
| 22 | D | TR3D226(1)035(2)0300 | 7.7 | 6 | 0.300 | 0.71 |
| 22 | D | TR3D226(1)035(2)0275 | 7.7 | 6 | 0.275 | 0.74 |
| 22 | D | TR3D226(1)035(2)0250 | 7.7 | 6 | 0.250 | 0.77 |

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



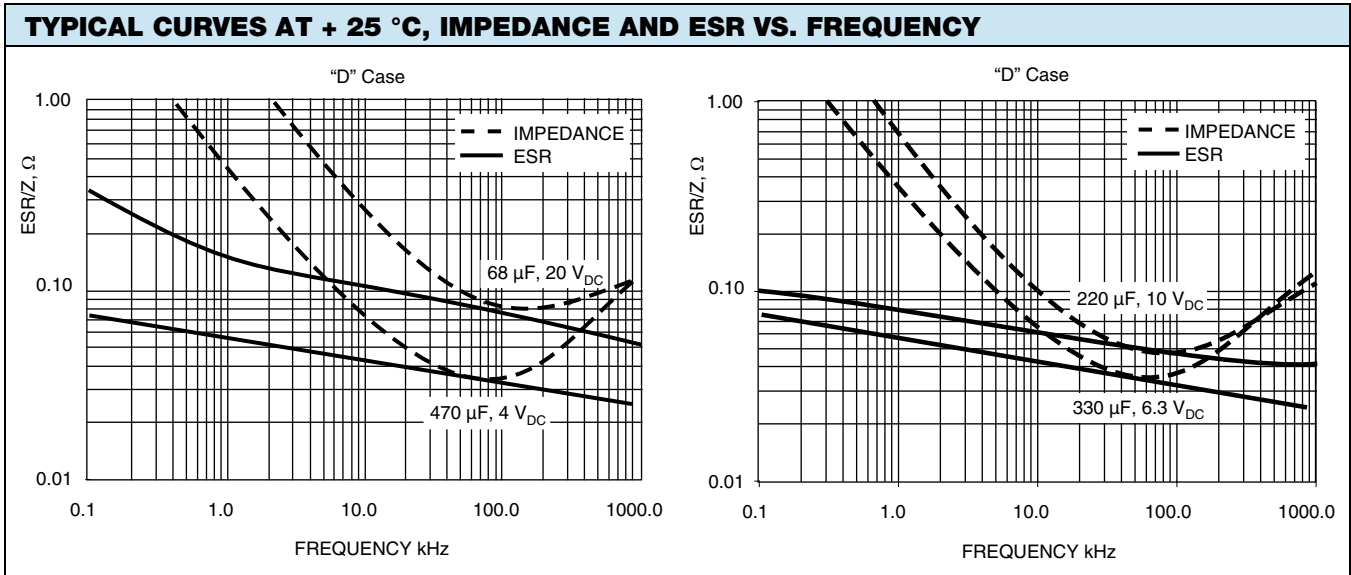
| STANDARD RATINGS | | | | | | |
|--|--------------|----------------------|--|--|---|--|
| CAPACITANCE (μ F) | CASE CODE | PART NUMBER | MAX. DC LEAKAGE AT + 25 °C (μ A) | MAX. DF AT + 25 °C 120 Hz (%) | MAX. ESR AT + 25 °C 100 kHz (Ω) | MAX. RIPPLE 100 kHz I_{RMS} (A) |
| 35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C | | | | | | |
| 22 | D | TR3D226(1)035(2)0200 | 7.7 | 6 | 0.200 | 0.87 |
| 22 | E | TR3E226(1)035(2)0300 | 7.7 | 6 | 0.300 | 0.74 |
| 22 | E | TR3E226(1)035(2)0275 | 7.7 | 6 | 0.275 | 0.77 |
| 22 | E | TR3E226(1)035(2)0260 | 7.7 | 6 | 0.260 | 0.80 |
| 22 | E | TR3E226(1)035(2)0200 | 7.7 | 6 | 0.200 | 0.91 |
| 50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C | | | | | | |
| 1.0 | B | TR3B105(1)050(2)4000 | 0.5 | 4 | 4.000 | 0.15 |
| 1.0 | B | TR3B105(1)050(2)2000 | 0.5 | 4 | 2.000 | 0.21 |
| 1.0 | C | TR3C105(1)050(2)1600 | 0.5 | 4 | 1.600 | 0.26 |
| 1.5 | B | TR3B155(1)050(2)2000 | 0.8 | 6 | 2.000 | 0.21 |
| 1.5 | C | TR3C155(1)050(2)1500 | 0.8 | 6 | 1.500 | 0.27 |
| 2.2 | B | TR3B225(1)050(2)2000 | 1.1 | 6 | 2.000 | 0.21 |
| 2.2 | C | TR3C225(1)050(2)1500 | 1.1 | 6 | 1.500 | 0.27 |
| 2.2 | D | TR3D225(1)050(2)0800 | 1.1 | 6 | 0.800 | 0.43 |
| 3.3 | C | TR3C335(1)050(2)1500 | 1.7 | 6 | 1.500 | 0.27 |
| 3.3 | D | TR3D335(1)050(2)0800 | 1.7 | 6 | 0.800 | 0.43 |
| 4.7 | C | TR3C475(1)050(2)1000 | 2.4 | 6 | 1.000 | 0.33 |
| 4.7 | C | TR3C475(1)050(2)0700 | 2.4 | 6 | 0.700 | 0.40 |
| 4.7 | C | TR3C475(1)050(2)0500 | 2.4 | 6 | 0.500 | 0.47 |
| 4.7 | D | TR3D475(1)050(2)0700 | 2.4 | 6 | 0.700 | 0.46 |
| 4.7 | D | TR3D475(1)050(2)0600 | 2.4 | 6 | 0.600 | 0.50 |
| 4.7 | D | TR3D475(1)050(2)0500 | 2.4 | 6 | 0.500 | 0.55 |
| 4.7 | D | TR3D475(1)050(2)0300 | 2.4 | 6 | 0.300 | 0.71 |
| 4.7 | E | TR3E475(1)050(2)0600 | 2.4 | 4 | 0.600 | 0.52 |
| 4.7 | E | TR3E475(1)050(2)0300 | 2.4 | 4 | 0.300 | 0.74 |
| 6.8 | D | TR3D685(1)050(2)0700 | 3.4 | 6 | 0.700 | 0.46 |
| 6.8 | D | TR3D685(1)050(2)0600 | 3.4 | 6 | 0.600 | 0.50 |
| 6.8 | D | TR3D685(1)050(2)0500 | 3.4 | 6 | 0.500 | 0.55 |
| 6.8 | D | TR3D685(1)050(2)0300 | 3.4 | 6 | 0.300 | 0.71 |
| 6.8 | E | TR3E685(1)050(2)0550 | 3.4 | 6 | 0.550 | 0.55 |
| 6.8 | E | TR3E685(1)050(2)0500 | 3.4 | 6 | 0.500 | 0.57 |
| 10 | D | TR3D106(1)050(2)0700 | 5.0 | 6 | 0.700 | 0.46 |
| 10 | D | TR3D106(1)050(2)0550 | 5.0 | 6 | 0.550 | 0.52 |
| 10 | D | TR3D106(1)050(2)0450 | 5.0 | 6 | 0.450 | 0.58 |
| 10 | E | TR3E106(1)050(2)0700 | 5.0 | 6 | 0.700 | 0.49 |
| 10 | E | TR3E106(1)050(2)0550 | 5.0 | 6 | 0.550 | 0.55 |
| 10 | E | TR3E106(1)050(2)0500 | 5.0 | 6 | 0.500 | 0.57 |
| 10 | E | TR3E106(1)050(2)0400 | 5.0 | 6 | 0.400 | 0.64 |
| 10 | E | TR3E106(1)050(2)0300 | 5.0 | 6 | 0.300 | 0.74 |
| 15 | E | TR3E156(1)050(2)0400 | 7.5 | 6 | 0.400 | 0.64 |
| 15 | E | TR3E156(1)050(3)0300 | 7.5 | 6 | 0.300 | 0.74 |
| 63 V_{DC} AT + 85 °C; 40 V_{DC} AT + 125 °C | | | | | | |
| 4.7 | D | TR3D475(1)063(2)0700 | 3.0 | 6 | 0.700 | 0.46 |
| 10 | E | TR3E106(1)063(2)0600 | 6.3 | 6 | 0.600 | 0.52 |

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



| RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperatures below + 85 °C) | |
|---|-------------------|
| STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS | |
| Capacitor Voltage Rating | Operating Voltage |
| 4.0 | 2.5 |
| 6.3 | 3.6 |
| 10 | 6.0 |
| 16 | 10 |
| 20 | 12 |
| 25 | 15 |
| 35 | 24 |
| 50 | 28 |
| 63 | 38 |
| 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 |
| 63 | 32 |





| POWER DISSIPATION | |
|-------------------|--|
| CASE CODE | MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR |
| A | 0.075 |
| B | 0.085 |
| C | 0.110 |
| D | 0.150 |
| E | 0.165 |
| V | 0.125 |
| W | 0.250 |

| STANDARD PACKAGING QUANTITY | | |
|-----------------------------|----------------|----------|
| CASE CODE | UNITS PER REEL | |
| | 7" REEL | 13" REEL |
| A | 2000 | 9000 |
| B | 2000 | 8000 |
| C | 500 | 3000 |
| D | 500 | 2500 |
| E | 400 | 1500 |
| V | 1000 | 5000 |
| W | 500 | 2000 |

| PRODUCT INFORMATION | |
|--------------------------------------|--|
| Guide for Molded Tantalum Capacitors | |
| Pad Dimensions | www.vishay.com/doc?40074 |
| Packaging Dimensions | |
| 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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