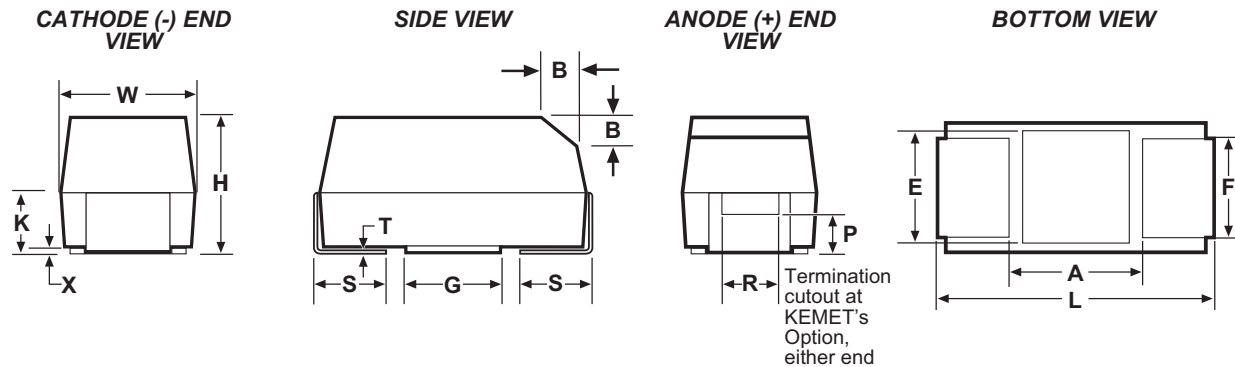


FEATURES

- Designed for very low ESR
- High ripple current capability
- High surge current capability
- 100% accelerated steady-state aging
- 100% Surge Current test
- Meets or Exceeds EIA Standard 535BAAC
- Available tested per DSCC Dwg. 95158
- Operating Temperature: -55°C to +125°C
- New Extended Values for Low ESR
- Low Equivalent Series Inductance (<2.5nH ESL)
- Precision-molded, laser-marked case
- Symmetrical, compliant terminations
- Taped and reeled per EIA 481-1
- RoHS Compliant & Leadfree Terminations (see www.kemet.com for lead transition)

OUTLINE DRAWING



STANDARD T495 DIMENSIONS

Millimeters (Inches)

| Case Size | | L | W | H | K ±0.20 | F ±0.1 | S ±0.3 | B ±0.15 (Ref) ±(.006) | X (Ref) | P (Ref) | R (Ref) | T (Ref) | A (Min) | G (Ref) | E (Ref) |
|-----------|---------|----------------------------|----------------------------|----------------------------|---------------|---------------|---------------|-----------------------|------------------------------|----------------|---------------|----------------|---------------|---------------|---------------|
| KEMET | EIA | | | | | | | | | | | | | | |
| A | 3216-18 | 3.2 ± 0.2 (.126 ± .008) | 1.6 ± 0.2 (.063 ± .008) | 1.6 ± 0.2 (.063 ± .008) | 0.9 (.035) | 1.2 (.047) | 0.8 (.031) | 0.4 (.016) | 0.10 ± 0.10 (.004 ± .004) | 0.4 (.016) | 0.4 (.016) | 0.13 (.005) | 1.4 (.055) | 1.1 (.043) | 1.3 (.051) |
| B | 3528-21 | 3.5 ± 0.2 (.138 ± .008) | 2.8 ± 0.2 (.110 ± .008) | 1.9 ± 0.1 (.075 ± .008) | 1.1 (.043) | 2.2 (.087) | 0.8 (.031) | 0.4 (.016) | 0.10 ± 0.10 (.004 ± .004) | 0.5 (.020) | 1.0 (.039) | 0.13 (.005) | 2.1 (.083) | 1.8 (.071) | 2.2 (.087) |
| C | 6032-28 | 6.0 ± 0.3 (.236 ± .012) | 3.2 ± 0.3 (.126 ± .012) | 2.5 ± 0.3 (.098 ± .012) | 1.4 (.055) | 2.2 (.087) | 1.3 (.051) | 0.5 (.020) | 0.10 ± 0.10 (.004 ± .004) | 0.9 (.0235) | 1.0 (.039) | 0.13 (.005) | 3.1 (.122) | 2.8 (.110) | 2.4 (.094) |
| D | 7343-31 | 7.3 ± 0.3 (.287 ± .012) | 4.3 ± 0.3 (.169 ± .012) | 2.8 ± 0.3 (.110 ± .012) | 1.5 (.059) | 2.4 (.094) | 1.3 (.051) | 0.5 (.020) | 0.10 ± 0.10 (.004 ± .004) | 0.9 (.0235) | 1.0 (.039) | 0.13 (.005) | 3.8 (.150) | 3.5 (.138) | 3.5 (.138) |
| X | 7343-43 | 7.3 ± 0.3 (.287 ± .012) | 4.3 ± 0.3 (.169 ± .012) | 4.0 ± 0.3 (.157 ± .012) | 2.3 (.091) | 2.4 (.094) | 1.3 (.051) | 0.5 (.020) | 0.10 ± 0.10 (.004 ± .004) | 1.7 (.067) | 1.0 (.039) | 0.13 (.005) | 3.8 (.150) | 3.5 (.138) | 3.5 (.138) |
| E | 7260-38 | 7.3 ± 0.3 (.287 ± .012) | 6.0 ± 0.3 (.236 ± .012) | 3.6 ± 0.2 (.142 ± .008) | 2.3 (.091) | 4.1 (.161) | 1.3 (.051) | 0.5 (.020) | 0.10 ± 0.10 (.004 ± .004) | 0.9 (.035) | 1.0 (.039) | 0.13 (.005) | 3.8 (.150) | 3.5 (.138) | 3.5 (.138) |

Notes: 1. Metric dimensions govern.
2. (Ref) - Dimensions provided for reference only.

LOW PROFILE T495 DIMENSIONS

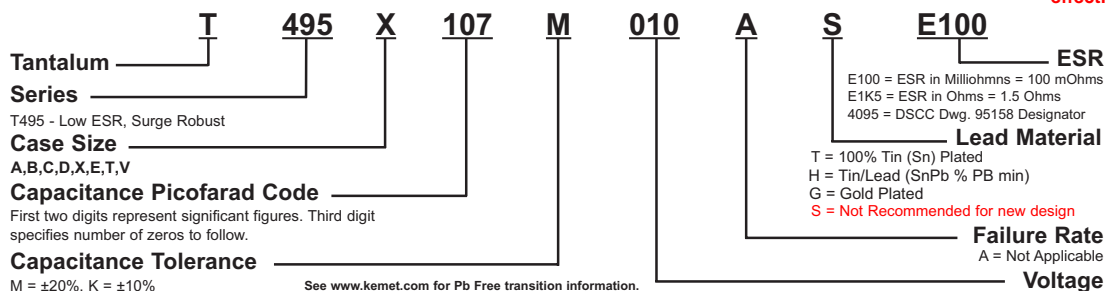
Millimeters (Inches)

| CASE SIZE | | COMPONENT | | | | | | | | | | |
|-----------|---------|----------------------------|----------------------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|
| KEMET | EIA | L | W | H Max. | K Min. | F ± 0.1 | S ± 0.3 | X (Ref) | T (Ref) | A (Min) | G (Ref) | E (Ref) |
| T | 3528-12 | 3.5 ± 0.2 (.138 ± .008) | 2.8 ± 0.2 (.110 ± .008) | 1.2 (.047) | 0.3 (.012) | 2.2 (.087) | 0.8 (.031) | 0.05 (.002) | 0.13 (.005) | 2.1 (.083) | 1.8 (.071) | 2.2 (.087) |
| V | 7343-20 | 7.3 ± 0.3 (.287 ± .012) | 4.3 ± 0.3 (.169 ± .012) | 2.0 (0.079) | 0.9 (.035) | 2.4 (.094) | 1.3 (.051) | 0.05 (.002) | 0.13 (.005) | 3.8 (.150) | 3.5 (.138) | 3.5 (.138) |

Notes: 1. Metric dimensions govern.
2. (Ref) - Dimensions provided for reference only.
3. No dimensions provided for B, P or R because low profile cases do not have a bevel or a notch.

*Pb-free supply is not guaranteed with the 'S' termination code.
This termination code not available effective 15 July 2007.

T495 Series – ORDERING INFORMATION



T495 RATINGS & PART NUMBER REFERENCE

| Capacitance μF | Case Size | KEMET Part Number | DSCC Dwg. No. 95158 Part Number | DC Leakage μA @ 25°C Max | DF% @ 25°C 120 Hz Max | ESR m Ω @ 25°C 100 kHz Max | Ripple Current mA rms @ 25°C, 100 kHz Max | | | Capacitance μF | Case Size | KEMET Part Number | DSCC Dwg. No. 95158 Part Number | DC Leakage μA @ 25°C Max | DF% @ 25°C 120 Hz Max | ESR m Ω @ 25°C 100 kHz Max | Ripple Current mA rms @ 25°C, 100 kHz Max | | |
|---|-----------|------------------------|---------------------------------|-------------------------------------|-----------------------|-----------------------------------|---|------|-------|---------------------------|-----------|------------------------|---------------------------------|-------------------------------------|-----------------------|-----------------------------------|--|------|-------|
| | | | | | | | 25°C | 85°C | 125°C | | | | | | | | 25°C | 85°C | 125°C |
| | | | | | | | 2.5 Volt Rating @ +85°C (1.7 Volt Rating at +125°C) | | | | | | | | | | 10 Volt Rating @ +85°C (7 Volt Rating at +125°C) | | |
| 100.0 | T | T495T107M2R5A(2)E3K0 | | 2.5 | 24.0 | 3000 | 153 | 137 | 61 | 4.7 | A | T495A475(1)010A(2)E1K3 | | 0.5 | 6.0 | 1300 | 240 | 216 | 96 |
| 220.0 | D | T495D227(1)2R5A(2)E045 | | 5.5 | 8.0 | 45 | 1826 | 1643 | 730 | 4.7 | B | T495B475(1)010A(2)E1K3 | | 0.5 | 15.0 | 1300 | 256 | 230 | 102 |
| 470.0 | D | T495D477(1)2R5A(2)E035 | | 11.8 | 8.0 | 35 | 2070 | 1863 | 828 | 6.8 | A | T495A685(1)010A(2)E1K8 | | 0.7 | 6.0 | 1800 | 204 | 184 | 82 |
| 1000.0 | X | T495X108(1)2R5A(2)E040 | | 25.0 | 15.0 | 40 | 2031 | 1828 | 812 | 6.8 | B | T495B685(1)010A(2)E900 | | 0.7 | 6.0 | 900 | 307 | 277 | 123 |
| 4 Volt Rating @ +85°C (2.7 Volt Rating at +125°C) | | | | | | | | | | | | | | | | | | | |
| 68.0 | V | T495V686(1)004A(2)E150 | | 2.7 | 6.0 | 150 | 913 | 822 | 365 | 6.8 | A | T495A106(1)010A(2)E1K8 | | 1.0 | 6.0 | 1800 | 204 | 184 | 82 |
| 100.0 | B | T495B107(1)004A(2)E500 | | 4.0 | 8.0 | 500 | 412 | 371 | 165 | 10.0 | B | T495B106(1)010A(2)E750 | | 1.0 | 6.0 | 750 | 337 | 303 | 135 |
| 150.0 | B | T495B157M004A(2)E900 | | 6.0 | 12.0 | 900 | 307 | 277 | 123 | 15.0 | B | T495B156(1)010A(2)E500 | | 1.5 | 6.0 | 500 | 412 | 371 | 165 |
| 150.0 | C | T495C157(1)004A(2)E070 | | 6.0 | 12.0 | 70 | 1254 | 1128 | 501 | 15.0 | C | T495C156(1)010A(2)E375 | | 1.5 | 6.0 | 375 | 542 | 487 | 217 |
| 150.0 | C | T495C157(1)004A(2)E250 | | 6.0 | 8.0 | 250 | 663 | 597 | 265 | 15.0 | C | T495C156(1)010A(2)E400 | | 1.5 | 6.0 | 400 | 524 | 472 | 210 |
| 220.0 | D | T495D227(1)004A(2)E040 | | 8.8 | 8.0 | 40 | 1936 | 1743 | 775 | 22.0 | C | T495C226(1)010A(2)E290 | | 2.2 | 6.0 | 290 | 616 | 554 | 242 |
| 220.0 | D | T495D227(1)004A(2)E050 | | 8.8 | 8.0 | 50 | 1732 | 1559 | 693 | 22.0 | C | T495C226(1)010A(2)E345 | | 2.2 | 6.0 | 345 | 565 | 508 | 226 |
| 220.0 | D | T495D227(1)004A(2)E100 | | 8.8 | 8.0 | 100 | 1225 | 1102 | 490 | 33.0 | B | T495B336(1)010A(2)E100 | | 3.3 | 6.0 | 450 | 435 | 392 | 174 |
| 330.0 | C | T495C337(1)004A(2)E300 | | 13.2 | 10.0 | 300 | 606 | 545 | 242 | 33.0 | V | T495V336(1)010A(2)E100 | | 3.3 | 6.0 | 100 | 1118 | 1066 | 447 |
| 330.0 | C | T495C337(1)004A(2)E700 | | 13.2 | 12.0 | 700 | 396 | 357 | 159 | 33.0 | V | T495V336(1)010A(2)E150 | | 3.3 | 6.0 | 150 | 913 | 822 | 365 |
| 330.0 | D | T495D337(1)004A(2)E030 | | 13.2 | 8.0 | 30 | 2236 | 2012 | 894 | 47.0 | B | T495B476(1)010A(2)E500 | | 4.7 | 6.0 | 500 | 412 | 371 | 164 |
| 330.0 | D | T495D337(1)004A(2)E045 | | 13.2 | 8.0 | 45 | 1826 | 1643 | 730 | 47.0 | D | T495D476(1)010A(2)E080 | | 4.7 | 6.0 | 80 | 1369 | 1232 | 548 |
| 470.0 | D | T495D477(1)004A(2)E045 | | 18.8 | 12.0 | 45 | 1826 | 1643 | 730 | 47.0 | D | T495D476(1)010A(2)E090 | | 4.7 | 6.0 | 90 | 1291 | 1162 | 516 |
| 470.0 | D | T495D477(1)004A(2)E100 | | 18.8 | 12.0 | 100 | 1225 | 1102 | 490 | 47.0 | D | T495D476(1)010A(2)E200 | | 3.8 | 4.0 | 200 | 866 | 780 | 346 |
| 470.0 | X | T495X477(1)004A(2)E030 | | 18.8 | 8.0 | 30 | 2345 | 2111 | 938 | 47.0 | D | T495D478(1)010A(2)4095 | 95158-04(1)(2) | 3.8 | 4.0 | 200 | 866 | 780 | 346 |
| 470.0 | X | T495X477(1)004A(2)E045 | | 18.8 | 8.0 | 45 | 1915 | 1723 | 766 | 68.0 | B | T495B686(1)010A(2)E600 | | 6.8 | 10.0 | 600 | 376 | 339 | 151 |
| 470.0 | X | T495X477(1)004A(2)E100 | | 18.8 | 8.0 | 100 | 1285 | 1156 | 514 | 68.0 | B | T495B686(1)010A(2)E750 | | 6.8 | 10.0 | 750 | 337 | 303 | 135 |
| 1000.0 | X | T495X108(1)004A(2)E070 | | 40.0 | 12.0 | 70 | 1535 | 1381 | 614 | 68.0 | B | T495B686M010A(2)E900 | | 6.8 | 10.0 | 900 | 307 | 276 | 123 |
| 1000.0 | E | T495E108(1)004A(2)E035 | | 40.0 | 15.0 | 35 | 2390 | 2151 | 956 | 68.0 | C | T495C686(1)010A(2)E070 | | 6.8 | 6.0 | 80 | 1173 | 1059 | 469 |
| 1000.0 | E | T495E108(1)004A(2)E050 | | 40.0 | 15.0 | 50 | 2000 | 1800 | 800 | 68.0 | C | T495C686(1)010A(2)E225 | | 6.8 | 6.0 | 225 | 700 | 630 | 280 |
| 6/6.3 Volt Rating @ +85°C (4 Volt Rating at +125°C) | | | | | | | | | | | | | | | | | | | |
| 47.0 | B | T495B476(1)006A(2)E450 | | 3.0 | 6.0 | 450 | 435 | 392 | 174 | 68.0 | V | T495V686(1)010A(2)E070 | | 6.8 | 6.0 | 70 | 1336 | 1203 | 535 |
| 47.0 | C | T495C476(1)006A(2)E250 | | 2.9 | 6.0 | 250 | 663 | 597 | 265 | 68.0 | V | T495V686(1)010A(2)E100 | | 6.8 | 6.0 | 100 | 1118 | 1066 | 447 |
| 47.0 | V | T495V476(1)006A(2)E150 | | 3.0 | 6.0 | 150 | 913 | 822 | 365 | 68.0 | V | T495V686(1)010A(2)E140 | | 6.8 | 6.0 | 140 | 945 | 850 | 378 |
| 68.0 | D | T495D686(1)006A(2)E175 | | 3.3 | 4.0 | 175 | 926 | 833 | 370 | 68.0 | D | T495D686(1)010A(2)E070 | | 6.8 | 6.0 | 70 | 1464 | 1317 | 586 |
| 68.0 | D | T495D686(1)006A(2)4095 | 95158-01(1)(2) | 3.3 | 4.0 | 175 | 926 | 833 | 370 | 68.0 | D | T495D686(1)010A(2)E090 | | 6.8 | 6.0 | 90 | 1291 | 1162 | 516 |
| 100.0 | *B | T495B107(1)006A(2)E400 | | 6.3 | 15.0 | 400 | 461 | 415 | 184 | 68.0 | D | T495D686(1)010A(2)E150 | | 6.8 | 6.0 | 150 | 1000 | 900 | 400 |
| 100.0 | *B | T495B107M006A(2)E700 | | 6.3 | 15.0 | 700 | 348 | 313 | 139 | 68.0 | X | T495X686(1)010A(2)E150 | | 5.4 | 4.0 | 150 | 1049 | 944 | 420 |
| 100.0 | C | T495C107(1)006A(2)E150 | | 6.0 | 8.0 | 150 | 856 | 770 | 342 | 68.0 | X | T495X686(1)010A(2)4095 | 95158-05(1)(2) | 5.4 | 4.0 | 150 | 1049 | 944 | 420 |
| 100.0 | D | T495D107(1)006A(2)E050 | | 6.0 | 6.0 | 50 | 1732 | 1559 | 693 | 100.0 | V | T495V107(1)010A(2)E100 | | 10.0 | 8.0 | 100 | 1118 | 1066 | 447 |
| 100.0 | D | T495D107(1)006A(2)E130 | | 6.0 | 6.0 | 130 | 1074 | 967 | 430 | 100.0 | V | T495V107(1)010A(2)E150 | | 10.0 | 8.0 | 150 | 913 | 822 | 365 |
| 100.0 | D | T495D107(1)006A(2)E150 | | 6.0 | 8.0 | 150 | 1000 | 900 | 400 | 100.0 | *D | T495D107(1)010A(2)E050 | | 10.0 | 8.0 | 50 | 1732 | 1559 | 693 |
| 100.0 | V | T495V107(1)006A(2)E090 | | 6.0 | 8.0 | 90 | 1179 | 1061 | 471 | 100.0 | *D | T495D107(1)010A(2)E060 | | 10.0 | 8.0 | 65 | 1519 | 1367 | 608 |
| 100.0 | V | T495V107(1)006A(2)E150 | | 6.0 | 8.0 | 150 | 913 | 822 | 365 | 100.0 | *D | T495D107(1)010A(2)E080 | | 10.0 | 8.0 | 80 | 1369 | 1232 | 548 |
| 150.0 | *C | T495C157(1)006A(2)E050 | | 9.5 | 8.0 | 50 | 1483 | 1335 | 593 | 100.0 | *D | T495D107(1)010A(2)E100 | | 10.0 | 8.0 | 100 | 1220 | 1100 | 490 |
| 150.0 | *C | T495C157M006A(2)E200 | | 9.5 | 8.0 | 200 | 742 | 668 | 297 | 100.0 | *D | T495D107(1)010A(2)4095 | 95158-06(1)(2) | 10.0 | 8.0 | 100 | 1220 | 1100 | 490 |
| 150.0 | V | T495V157(1)006A(2)E040 | | 9.5 | 8.0 | 40 | 1768 | 1591 | 707 | 100.0 | X | T495X107(1)010A(2)E100 | | 8.0 | 6.0 | 100 | 1285 | 1156 | 514 |
| 150.0 | V | T495V157(1)006A(2)E070 | | 9.0 | 8.0 | 70 | 1336 | 1203 | 535 | 100.0 | X | T495X107(1)010A(2)4095 | 95158-07(1)(2) | 8.0 | 6.0 | 100 | 1285 | 1156 | 514 |
| 150.0 | D | T495D157(1)006A(2)E050 | | 9.0 | 6.0 | 50 | 1732 | 1559 | 693 | 150.0 | *V | T495V157(1)010A(2)E100 | | 15.0 | 8.0 | 100 | 1118 | 1066 | 447 |
| 150.0 | D | T495D157(1)006A(2)E125 | | 9.0 | 6.0 | 125 | 1095 | 986 | 438 | 150.0 | *V | T495V157M010A(2)E150 | | 15.0 | 8.0 | 150 | 913 | 822 | 365 |
| 150.0 | X | T495X157(1)006A(2)E100 | | 7.2 | 6.0 | 100 | 1285 | 1156 | 514 | 150.0 | D | T495D157(1)010A(2)E050 | | 15.0 | 8.0 | 50 | 1732 | 1559 | 693 |
| 150.0 | X | T495X157(1)006A(2)4095 | 95158-02(1)(2) | 7.2 | 6.0 | 125 | 1150 | 1040 | 460 | 150.0 | D | T495D157(1)010A(2)E060 | | 15.0 | 8.0 | 60 | 1581 | 1423 | 632 |
| 220.0 | *C | T495C227(1)006A(2)E225 | | 13.9 | 10.0 | 225 | 700 | 600 | 300 | 150.0 | D | T495D157(1)010A(2)E080 | | 15.0 | 8.0 | 80 | 1369 | 1232 | 548 |
| 220.0 | D | T495D227(1)006A(2)E045 | | 13.2 | 8.0 | 45 | 1826 | 1643 | 730 | 150.0 | D | T495D157(1)010A(2)E100 | | 15.0 | 8.0 | 100 | 1225 | 1102 | 490 |
| 220.0 | D | T495D227(1)006A(2)E100 | | 13.9 | 8.0 | 100 | 1225 | 1102 | 490 | 150.0 | D | T495D157(1)010A(2)4095 | 95158-26(1)(2) | 15.0 | 8.0 | 100 | 1225 | 1102 | 490 |
| 220.0 | D | T495D227(1)006A(2)4095 | 95158-25(1)(2) | 13.2 | 8.0 | 100 | 1225 | 1102 | 490 | 150.0 | X | T495X157(1)010A(2)E070 | | 15.0 | 8.0 | 70 | 1535 | 1381 | 614 |
| 220.0 | X | T495X227(1)006A(2)E070 | | 13.2 | 8.0 | 70 | 1535 | 1381 | 614 | 150.0 | X | T495X157(1)010A(2)E080 | | 15.0 | 8.0 | 80 | 1436 | 1293 | 574 |
| 220.0 | X | T495X227(1)006A(2)E100 | | 13.2 | 8.0 | 100 | 1285 | 1156 | 514 | 150.0 | X | T495X157(1)010A(2)E085 | | 15.0 | 8.0 | 85 | 1393 | 1254 | 557 |
| 220.0 | X | T495X227(1)006A(2)4095 | 95158-03(1)(2) | 13.2 | 8.0 | 100 | 1285 | 1156 | 514 | 150.0 | X | T495X157(1)010A(2)E100 | | 15.0 | 8.0 | 100 | 1285 | 1156 | 514 |
| 330.0 | D | T495D337(1)006A(2)E040 | | 20.8 | 8.0 | 40 | 1936 | 1743 | 775 | 150.0 | X | T495X157(1)010A(2)4095 | 95158-08(1)(2) | 15.0 | 8.0 | 100 | 1285 | 1156 | 514 |
| 330.0 | D | T495D337(1)006A(2)E050 | | 20.8 | 8.0 | 50 | 1732 | 1559 | 693 | | | | | | | | | | |
| 330.0 | D | T495D337(1)006A(2)E070 | | 20.8 | 8.0 | 70 | 1464 | 1317 | 586 | | | | | | | | | | |
| 330.0 | D | T495D337(1)006A(2)E100 | | 20.8 | 8.0 | 100 | 1225 | 1102 | 490 | | | | | | | | | | |
| 330.0 | *X | T495X337(1)006A(2)E065 | | 19.8 | 8.0 | 65 | 1593 | 1434 | 637 | | | | | | | | | | |
| 330.0 | *X | T495X337(1)006A(2)E045 | | 19.8 | 8.0 | 45 | 1915 | 1723 | 766 | | | | | | | | | | |
| 330.0 | *X | T495X337(1)006A(2)E100 | | 19.8 | 8.0 | 100 | 1285 | 1156 | 514 | | | | | | | | | | |
| 330.0 | *E | T495E337(1)006A(2)E060 | | 20.8 | 8.0 | 60 | 1826 | 1643 | 730 | | | | | | | | | | |
| 330.0 | *E | T495E337(1)006A(2)E100 | | 20.8 | 8.0 | 100 | 1414 | 1273 | 566 | | | | | | | | | | |
| 470.0 | *D | T495D477(1)006A(2)E100 | | 29.6 | 12.0 | 100 | 1225 | 1102 | 490 | | | | | | | | | | |
| 470.0 | *D | T495D477(1)006A(2)E125 | | 29.6 | 12.0 | 125 | 1095 | 986 | 438 | | | | | | | | | | |

SOLID TANTALUM CHIP CAPACITORS

T495 SERIES—Low ESR, Surge Robust



T495 RATINGS & PART NUMBER REFERENCE

Solid Tantalum Surface Mount

| Capacitance μF | Case Size | KEMET Part Number | DSCC Dwg. No. 95158 Part Number | DC Leakage μA @ 25°C Max | DF% @ 25°C 120 Hz Max | ESR m Ω @ 25°C 100 kHz Max | Ripple Current mA rms @ | | |
|---|-----------|-------------------------|---------------------------------|-------------------------------------|-----------------------|-----------------------------------|-------------------------|------|-------|
| | | | | | | | 25°C | 85°C | 125°C |
| 10 Volt Rating @ +85°C (7 Volt Rating at +125°C) cont. | | | | | | | | | |
| 220.0 | *V | T495V227(1)010A(2)E150 | | 22.0 | 12.0 | 150 | 913 | 822 | 365 |
| 220.0 | D | T495D227(1)010A(2)E045 | | 22.0 | 8.0 | 45 | 1826 | 1643 | 730 |
| 220.0 | D | T495D227(1)010A(2)E075 | | 22.0 | 8.0 | 75 | 1414 | 1273 | 566 |
| 220.0 | D | T495D227(1)010A(2)E100 | | 22.0 | 8.0 | 100 | 1225 | 1102 | 490 |
| 220.0 | D | T495D227(1)010A(2)E125 | | 22.0 | 8.0 | 125 | 1095 | 986 | 438 |
| 220.0 | X | T495X227(1)010A(2)E045 | | 22.0 | 8.0 | 45 | 1915 | 1723 | 766 |
| 220.0 | X | T495X227(1)010A(2)E075 | | 22.0 | 8.0 | 75 | 1817 | 1635 | 727 |
| 220.0 | X | T495X227(1)010A(2)E100 | | 22.0 | 8.0 | 100 | 1658 | 1492 | 663 |
| 220.0 | X | T495X227(1)010A(2)E125 | | 22.0 | 8.0 | 125 | 1535 | 1382 | 614 |
| 220.0 | X | T495X227(1)010A(2)E100 | | 22.0 | 8.0 | 100 | 1285 | 1156 | 514 |
| 220.0 | X | T495X227(1)010A(2)E095 | 95158-28(1)(2) | 15.0 | 8.0 | 100 | 1285 | 1156 | 514 |
| 330.0 | D | T495D337(1)010A(2)E100 | | 33.0 | 8.0 | 100 | 1227 | 1102 | 490 |
| 330.0 | D | T495D337(1)010A(2)E125 | | 33.0 | 10.0 | 125 | 1095 | 986 | 438 |
| 330.0 | D | T495D337(1)010A(2)E150 | | 33.0 | 10.0 | 150 | 1000 | 900 | 400 |
| 330.0 | *X | T495X337(1)010A(2)E035 | | 33.0 | 10.0 | 35 | 2171 | 1954 | 868 |
| 330.0 | *X | T495X337(1)010A(2)E050 | | 33.0 | 10.0 | 50 | 1817 | 1635 | 727 |
| 330.0 | *X | T495X337(1)010A(2)E060 | | 33.0 | 10.0 | 60 | 1658 | 1492 | 663 |
| 330.0 | *X | T495X337(1)010A(2)E100 | | 33.0 | 10.0 | 100 | 1284 | 1156 | 513 |
| 330.0 | *E | T495E337(1)010A(2)E040 | | 33.0 | 8.0 | 40 | 2236 | 2012 | 894 |
| 330.0 | *E | T495E337(1)010A(2)E060 | | 33.0 | 10.0 | 60 | 1826 | 1643 | 730 |
| 330.0 | *E | T495E337(1)010A(2)E100 | | 33.0 | 10.0 | 100 | 1414 | 1273 | 566 |
| 470.0 | X | T495X477M010A(2)E045 | | 47.0 | 10.0 | 45 | 1915 | 1723 | 766 |
| 470.0 | X | T495X477M010A(2)E050 | | 47.0 | 10.0 | 50 | 1817 | 1635 | 727 |
| 470.0 | X | T495X477M010A(2)E060 | | 47.0 | 10.0 | 60 | 1658 | 1492 | 663 |
| 470.0 | X | T495X477M010A(2)E100 | | 47.0 | 10.0 | 100 | 1284 | 1156 | 513 |
| 470.0 | X | T495X477M010A(2)E200 | | 47.0 | 10.0 | 200 | 908 | 817 | 363 |
| 16 Volt Rating @ +85°C (10 Volt Rating at +125°C) | | | | | | | | | |
| 3.3 | A | T495A335(1)016A(2)E3K0 | | 0.5 | 6.0 | 3000 | 158 | 142 | 63 |
| 4.7 | A | T495A475(1)016A(2)E2K0 | | 0.8 | 6.0 | 2000 | 194 | 174 | 77 |
| 4.7 | B | T495B475(1)016A(2)E700 | | 0.8 | 6.0 | 700 | 348 | 313 | 139 |
| 6.8 | C | T495C685(1)016A(2)E750 | | 1.1 | 6.0 | 750 | 383 | 345 | 153 |
| 10.0 | *T | T495T106M016A(2)E4K0 | | 1.6 | 8.0 | 4000 | 132 | 119 | 53 |
| 15.0 | A | T495A156(1)016A(2)E2K5 | | 2.4 | 8.0 | 2500 | 173 | 156 | 69 |
| 15.0 | B | T495B156(1)016A(2)E800 | | 2.4 | 6.0 | 800 | 326 | 293 | 130 |
| 33.0 | *C | T495C336(1)016A(2)E200 | | 5.3 | 6.0 | 200 | 742 | 667 | 297 |
| 33.0 | *C | T495C336(1)016A(2)E225 | | 5.3 | 6.0 | 225 | 699 | 629 | 283 |
| 33.0 | *C | T495C336(1)016A(2)E275 | | 5.3 | 6.0 | 275 | 632 | 569 | 250 |
| 33.0 | D | T495D336(1)016A(2)E150 | | 6.6 | 6.0 | 150 | 1000 | 900 | 400 |
| 33.0 | D | T495D336(1)016A(2)E175 | | 6.6 | 6.0 | 175 | 926 | 833 | 370 |
| 33.0 | D | T495D336(1)016A(2)E225 | | 4.2 | 4.0 | 225 | 816 | 735 | 327 |
| 33.0 | D | T495D336(1)016A(2)E4095 | 95158-09(1)(2) | 4.2 | 4.0 | 250 | 770 | 700 | 314 |
| 47.0 | C | T495C476(1)016A(2)E350 | | 7.5 | 6.0 | 350 | 561 | 505 | 224 |
| 47.0 | D | T495D476(1)016A(2)E080 | | 7.5 | 6.0 | 80 | 1369 | 1232 | 547 |
| 47.0 | D | T495D476(1)016A(2)E100 | | 7.5 | 6.0 | 100 | 1225 | 1102 | 490 |
| 47.0 | D | T495D476(1)016A(2)E150 | | 7.5 | 6.0 | 150 | 1000 | 900 | 400 |
| 47.0 | D | T495D476(1)016A(2)E4095 | 95158-10(1)(2) | 7.5 | 6.0 | 200 | 870 | 780 | 345 |
| 68.0 | *V | T495V686(1)016A(2)E180 | | 10.9 | 6.0 | 180 | 833 | 750 | 333 |
| 68.0 | *V | T495V686(1)016A(2)E300 | | 10.9 | 6.0 | 300 | 645 | 581 | 258 |
| 68.0 | D | T495D686(1)016A(2)E070 | | 10.9 | 6.0 | 70 | 1464 | 1317 | 586 |
| 68.0 | D | T495D686(1)016A(2)E100 | | 10.9 | 6.0 | 100 | 1225 | 1102 | 490 |
| 68.0 | D | T495D686(1)016A(2)E150 | | 10.9 | 6.0 | 150 | 1000 | 900 | 400 |
| 100.0 | *D | T495D107(1)016(2)E100 | | 16.0 | 8.0 | 100 | 1225 | 1102 | 490 |
| 100.0 | *D | T495D107(1)016A(2)E125 | | 16.0 | 8.0 | 125 | 1095 | 986 | 438 |
| 100.0 | X | T495X107(1)016A(2)E080 | | 16.0 | 8.0 | 80 | 1436 | 1293 | 574 |
| 100.0 | X | T495X107(1)016A(2)E100 | | 16.0 | 8.0 | 100 | 1285 | 1156 | 514 |
| 100.0 | X | T495X107(1)016A(2)E4095 | 95158-11(1)(2) | 16.0 | 8.0 | 125 | 1149 | 1034 | 460 |
| 150.0 | *D | T495D157M016A(2)E100 | | 24.0 | 8.0 | 100 | 1224 | 1102 | 489 |
| 150.0 | *D | T495D157M016A(2)E125 | | 24.0 | 8.0 | 125 | 1095 | 985 | 438 |
| 150.0 | *D | T495D157M016A(2)E150 | | 24.0 | 8.0 | 150 | 1000 | 900 | 400 |
| 150.0 | *X | T495X157(1)016A(2)E075 | | 24.0 | 8.0 | 75 | 1483 | 1335 | 593 |
| 150.0 | *X | T495X157(1)016A(2)E100 | | 24.0 | 8.0 | 100 | 1285 | 1156 | 514 |
| 227.0 | *X | T495X227(1)016A(2)E100 | | 35.2 | 8.0 | 100 | 1284 | 1156 | 513 |
| 220.0 | *E | T495E227(1)016A(2)E075 | | 35.2 | 8.0 | 75 | 1632 | 1469 | 652 |
| 220.0 | *E | T495E227(1)016A(2)E100 | | 35.2 | 7.2 | 100 | 1414 | 1273 | 566 |
| 220.0 | *E | T495E227(1)016A(2)E150 | | 35.2 | 7.2 | 150 | 1155 | 1039 | 462 |

| Capacitance μF | Case Size | KEMET Part Number | DSCC Dwg. No. 95158 Part Number | DC Leakage μA @ 25°C Max | DF% @ 25°C 120 Hz Max | ESR m Ω @ 25°C 100 kHz Max | Ripple Current mA rms @ | | |
|--|-----------|-------------------------|---------------------------------|-------------------------------------|-----------------------|-----------------------------------|-------------------------|------|-------|
| | | | | | | | 25°C | 85°C | 125°C |
| 20 Volt Rating @ +85°C (13 Volt Rating at +125°C) | | | | | | | | | |
| 1.0 | A | T495A105(1)020A(2)E3K0 | | 0.2 | 4.0 | 3000 | 158 | 142 | 63 |
| 10.0 | B | T495B106(1)020A(2)E1K0 | | 2.0 | 6.0 | 1000 | 292 | 262 | 117 |
| 10.0 | C | T495C106(1)020A(2)E400 | | 2.0 | 6.0 | 400 | 524 | 472 | 210 |
| 10.0 | C | T495C106(1)020A(2)E475 | | 2.0 | 6.0 | 475 | 481 | 433 | 192 |
| 15.0 | C | T495C156(1)020A(2)E375 | | 3.0 | 6.0 | 375 | 542 | 487 | 217 |
| 15.0 | D | T495D156(1)020A(2)E275 | | 2.4 | 4.0 | 275 | 738 | 665 | 295 |
| 15.0 | D | T495D156(1)020A(2)E4095 | 95158-12(1)(2) | 2.4 | 4.0 | 275 | 738 | 665 | 295 |
| 22.0 | D | T495D226(1)020A(2)E180 | | 3.5 | 4.0 | 180 | 913 | 822 | 365 |
| 22.0 | D | T495D226(1)020A(2)E225 | | 3.5 | 4.0 | 225 | 816 | 735 | 326 |
| 22.0 | D | T495D226(1)020A(2)E4095 | 95158-13(1)(2) | 3.5 | 4.0 | 275 | 739 | 665 | 295 |
| 33.0 | D | T495D336(1)020A(2)E100 | | 6.6 | 6.0 | 100 | 1225 | 1102 | 490 |
| 33.0 | D | T495D336(1)020A(2)E150 | | 6.6 | 6.0 | 150 | 1000 | 900 | 400 |
| 33.0 | D | T495D336(1)020A(2)E200 | | 6.6 | 6.0 | 200 | 866 | 780 | 346 |
| 47.0 | D | T495D476(1)020A(2)E075 | | 9.4 | 6.0 | 75 | 1414 | 1272 | 565 |
| 47.0 | D | T495D476(1)020A(2)E100 | | 9.4 | 6.0 | 100 | 1225 | 1102 | 490 |
| 47.0 | D | T495D476(1)020A(2)E175 | | 9.4 | 6.0 | 175 | 926 | 833 | 370 |
| 47.0 | X | T495X476(1)020A(2)E065 | | 9.4 | 8.0 | 65 | 1593 | 1434 | 637 |
| 47.0 | X | T495X476(1)020A(2)E100 | | 9.4 | 6.0 | 100 | 1285 | 1156 | 514 |
| 47.0 | X | T495X476(1)020A(2)E125 | | 9.4 | 6.0 | 125 | 1149 | 1034 | 460 |
| 47.0 | X | T495X476(1)020A(2)E150 | | 7.5 | 4.0 | 150 | 1049 | 944 | 420 |
| 47.0 | X | T495X476(1)020A(2)E4095 | 95158-14(1)(2) | 7.5 | 4.0 | 150 | 1049 | 944 | 420 |
| 68.0 | D | T495D686(1)020A(2)E070 | | 13.6 | 8.0 | 70 | 1464 | 1317 | 586 |
| 68.0 | *D | T495D686(1)020A(2)E150 | | 13.6 | 8.0 | 150 | 1000 | 900 | 400 |
| 68.0 | X | T495X686(1)020A(2)E120 | | 13.6 | 6.0 | 120 | 1173 | 1055 | 469 |
| 68.0 | X | T495X686(1)020A(2)E150 | | 13.6 | 6.0 | 150 | 1049 | 944 | 420 |
| 68.0 | X | T495X686(1)020A(2)E4095 | 95158-15(1)(2) | 13.6 | 6.0 | 150 | 1049 | 944 | 420 |
| 100.0 | X | T495X107(1)020A(2)E100 | | 20.0 | 6.0 | 100 | 1285 | 1156 | 514 |
| 100.0 | X | T495X107(1)020A(2)E150 | | 20.0 | 8.0 | 150 | 1049 | 944 | 420 |
| 100.0 | E | T495E107(1)020A(2)E085 | | 20.0 | 8.0 | 85 | 1534 | 1381 | 614 |
| 100.0 | E | T495E107(1)020A(2)E100 | | 20.0 | 8.0 | 100 | 1414 | 1273 | 566 |
| 100.0 | E | T495E107(1)020A(2)E200 | | 20.0 | 8.0 | 200 | 1000 | 900 | 400 |
| 25 Volt Rating @ +85°C (17 Volt Rating at +125°C) | | | | | | | | | |
| 0.47 | A | T495A474(1)025A(2)E4K5 | | 0.5 | 4.0 | 4500 | 129 | 116 | 52 |
| 2.2 | C | T495C225(1)025A(2)E1K3 | | 0.6 | 6.0 | 1300 | 291 | 262 | 116 |
| 3.3 | C | T495C335(1)025A(2)E750 | | 0.9 | 6.0 | 750 | 383 | 345 | 153 |
| 4.7 | C | T495C475(1)025A(2)E575 | | 1.2 | 6.0 | 575 | 437 | 394 | 175 |
| 6.8 | *B | T495B685(1)025A(2)E1K5 | | 1.7 | 6.0 | 1500 | 238 | 214 | 95 |
| 6.8 | C | T495C685(1)025A(2)E400 | | 1.7 | 6.0 | 400 | 524 | 472 | 210 |
| 6.8 | C | T495C685(1)025A(2)E490 | | 1.7 | 6.0 | 490 | 474 | 426 | 1 |

SOLID TANTALUM CHIP CAPACITORS

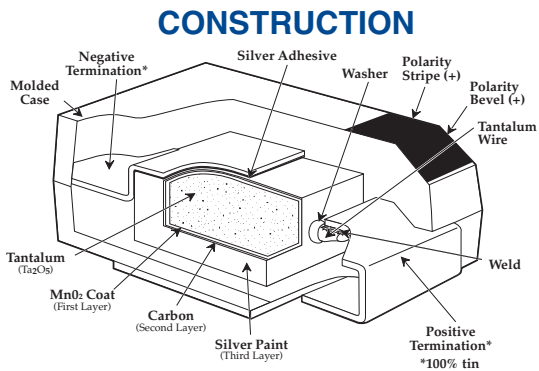
T495 SERIES—Low ESR, Surge Robust

T495 RATINGS & PART NUMBER REFERENCE

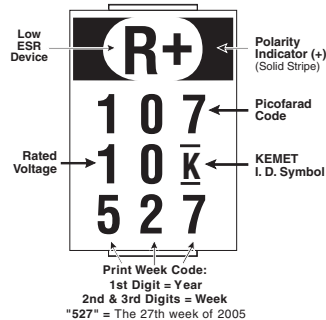
| Capacitance μ F | Case Size | KEMET Part Number | DSCC Dwg. No. 95158 Part Number | DC Leakage μ A @ 25°C Max | DF% @ 25°C 120 Hz Max | ESR m Ω @ 25°C 100 kHz Max | Ripple Current mA rms @ 25°C, 100 kHz Max | | |
|--|-----------|------------------------|---------------------------------|-------------------------------|-----------------------|-----------------------------------|---|------|-------|
| | | | | | | | 25°C | 85°C | 125°C |
| 25 Volt Rating @ +85°C (17 Volt Rating at +125°C) | | | | | | | | | |
| 68.0 | *X | T495X686(1)025A(2)E125 | | 17.0 | 8.0 | 125 | 1149 | 1034 | 460 |
| 68.0 | *X | T495X686(1)025A(2)E150 | | 17.0 | 8.0 | 150 | 1049 | 944 | 420 |
| 68.0 | *X | T495X686(1)025A(2)E200 | | 17.0 | 8.0 | 200 | 908 | 817 | 363 |
| 35 Volt Rating @ +85°C (23 Volt Rating at +125°C) | | | | | | | | | |
| 0.47 | B | T495B474(1)035A(2)E1K5 | | 0.5 | 4.0 | 1500 | 238 | 214 | 95 |
| 0.47 | B | T495B474(1)035A(2)E2K2 | | 0.5 | 4.0 | 2200 | 197 | 177 | 79 |
| 1.0 | A | T495A105(1)035A(2)E3K0 | | 0.4 | 4.0 | 3000 | 158 | 142 | 63 |
| 1.0 | B | T495B105(1)035A(2)E1K5 | | 0.5 | 4.0 | 1500 | 238 | 214 | 95 |
| 1.0 | B | T495B105(1)035A(2)E1K7 | | 0.5 | 4.0 | 1700 | 224 | 201 | 89 |
| 2.2 | B | T495B225(1)035A(2)E1K5 | | 0.8 | 6.0 | 1500 | 238 | 214 | 95 |
| 2.2 | C | T495C225(1)035A(2)E750 | | 0.8 | 6.0 | 750 | 383 | 345 | 153 |
| 3.3 | B | T495B335(1)035A(2)E900 | | 1.2 | 6.0 | 900 | 307 | 276 | 123 |
| 3.3 | C | T495C335(1)035A(2)E525 | | 1.1 | 6.0 | 525 | 457 | 411 | 182 |
| 3.3 | C | T495C335(1)035A(2)E550 | | 1.1 | 6.0 | 550 | 447 | 402 | 178 |
| 3.3 | C | T495C335(1)035A(2)E600 | | 1.2 | 6.0 | 600 | 428 | 385 | 171 |
| 4.7 | *B | T495B475(1)035A(2)E1K0 | | 1.6 | 6.0 | 1000 | 282 | 252 | 117 |
| 4.7 | *C | T495C475(1)035A(2)E450 | | 1.7 | 6.0 | 450 | 494 | 445 | 198 |
| 4.7 | *C | T495C475(1)035A(2)E500 | | 1.7 | 6.0 | 500 | 469 | 422 | 188 |
| 4.7 | *C | T495C475(1)035A(2)E600 | | 1.7 | 6.0 | 600 | 428 | 385 | 171 |
| 4.7 | *C | T495C475(1)035A(2)4095 | 95158-29(1)2 | 1.7 | 6.0 | 600 | 428 | 385 | 171 |
| 6.8 | D | T495D685(1)035A(2)E150 | | 2.4 | 6.0 | 150 | 1000 | 900 | 400 |
| 6.8 | D | T495D685(1)035A(2)E400 | | 2.4 | 6.0 | 400 | 612 | 551 | 245 |
| 6.8 | X | T495X685(1)035A(2)E300 | | 1.9 | 4.0 | 300 | 742 | 667 | 297 |
| 6.8 | X | T495X685(1)035A(2)4095 | 95158-20(1)2 | 1.9 | 4.0 | 300 | 742 | 667 | 297 |
| 10.0 | D | T495D106(1)035A(2)E120 | | 3.5 | 6.0 | 120 | 1118 | 1006 | 447 |
| 10.0 | D | T495D106(1)035A(2)E130 | | 3.5 | 6.0 | 130 | 1074 | 967 | 430 |
| 10.0 | D | T495D106(1)035A(2)E250 | | 3.5 | 6.0 | 250 | 775 | 697 | 310 |
| 10.0 | D | T495D106(1)035A(2)E300 | | 3.5 | 6.0 | 300 | 707 | 636 | 283 |
| 10.0 | D | T495D106(1)035A(2)4095 | 95158-27(1)2 | 3.5 | 4.0 | 300 | 707 | 636 | 283 |
| 10.0 | X | T495X106(1)035A(2)E175 | | 3.5 | 6.0 | 175 | 971 | 874 | 388 |
| 10.0 | X | T495X106(1)035A(2)E200 | | 3.5 | 6.0 | 200 | 908 | 817 | 363 |
| 10.0 | X | T495X106(1)035A(2)E250 | | 2.8 | 4.0 | 250 | 812 | 731 | 325 |
| 10.0 | X | T495X106(1)035A(2)4095 | 95158-21(1)2 | 2.8 | 4.0 | 250 | 812 | 731 | 325 |
| 15.0 | *C | T495C156(1)035A(2)E350 | | 5.3 | 6.0 | 350 | 561 | 505 | 224 |
| 15.0 | *D | T495D156(1)035A(2)E225 | | 5.3 | 6.0 | 225 | 816 | 735 | 327 |
| 15.0 | *D | T495D156(1)035A(2)E300 | | 5.3 | 6.0 | 300 | 707 | 636 | 283 |
| 15.0 | *X | T495X156(1)035A(2)E200 | | 5.3 | 6.0 | 200 | 908 | 817 | 363 |
| 15.0 | *X | T495X156(1)035A(2)E225 | | 5.3 | 6.0 | 225 | 856 | 771 | 343 |
| 15.0 | *X | T495X156(1)035A(2)4095 | 95158-22(1)2 | 5.3 | 6.0 | 225 | 856 | 771 | 343 |
| 22.0 | *D | T495D226(1)035A(2)E125 | | 7.7 | 6.0 | 125 | 1095 | 985 | 438 |
| 22.0 | *D | T495D226(1)035A(2)E200 | | 7.7 | 6.0 | 200 | 866 | 779 | 346 |
| 22.0 | *D | T495D226(1)035A(2)E250 | | 7.7 | 6.0 | 250 | 775 | 697 | 310 |
| 22.0 | *D | T495D226(1)035A(2)E300 | | 7.7 | 6.0 | 300 | 707 | 636 | 283 |
| 22.0 | *X | T495X226(1)035A(2)E125 | | 7.7 | 6.0 | 125 | 1149 | 1034 | 460 |
| 22.0 | *X | T495X226(1)035A(2)E200 | | 7.7 | 6.0 | 200 | 908 | 817 | 363 |
| 22.0 | *X | T495X226(1)035A(2)E275 | | 7.7 | 6.0 | 275 | 775 | 697 | 310 |
| 22.0 | *X | T495X226(1)035A(2)4095 | 95158-23(1)2 | 7.7 | 6.0 | 300 | 742 | 667 | 297 |
| 33.0 | *D | T495D336(1)035A(2)E200 | | 11.6 | 6.0 | 200 | 866 | 779 | 346 |
| 33.0 | *D | T495D336(1)035A(2)E300 | | 11.6 | 6.0 | 300 | 707 | 636 | 283 |
| 33.0 | *X | T495X336(1)035A(2)E175 | | 11.6 | 6.0 | 175 | 971 | 874 | 388 |
| 33.0 | *X | T495X336(1)035A(2)E250 | | 11.6 | 6.0 | 250 | 812 | 731 | 325 |
| 47.0 | *X | T495X476(1)035A(2)E185 | | 16.5 | 8.0 | 185 | 944 | 850 | 378 |
| 47.0 | *X | T495X476(1)035A(2)E200 | | 16.5 | 8.0 | 200 | 908 | 817 | 363 |
| 47.0 | *X | T495X476(1)035A(2)E300 | | 16.5 | 8.0 | 300 | 742 | 667 | 297 |
| 50 Volt Rating @ +85°C (33 Volt Rating at +125°C) | | | | | | | | | |
| 1.0 | C | T495C105(1)050A(2)E1K3 | | 0.5 | 4.0 | 1300 | 281 | 262 | 116 |
| 2.2 | D | T495D225(1)050A(2)E600 | | 1.1 | 6.0 | 600 | 500 | 450 | 200 |
| 3.3 | D | T495D335(1)050A(2)E700 | | 1.7 | 6.0 | 700 | 463 | 417 | 185 |
| 4.7 | D | T495D475(1)050A(2)E275 | | 2.4 | 6.0 | 275 | 739 | 665 | 295 |
| 4.7 | D | T495D475(1)050A(2)E300 | | 2.4 | 6.0 | 300 | 707 | 636 | 283 |
| 4.7 | X | T495X475(1)050A(2)E300 | | 1.9 | 4.0 | 300 | 742 | 667 | 297 |
| 4.7 | X | T495X475(1)050A(2)4095 | 95158-24(1)2 | 1.9 | 4.0 | 300 | 742 | 667 | 297 |
| 6.8 | *D | T495D685(1)050A(2)E190 | | 3.4 | 6.0 | 190 | 888 | 799 | 355 |
| 6.8 | *D | T495D685(1)050A(2)E200 | | 3.4 | 6.0 | 200 | 866 | 779 | 346 |
| 6.8 | *D | T495D685(1)050A(2)E275 | | 3.4 | 6.0 | 275 | 739 | 665 | 295 |
| 6.8 | *D | T495D685(1)050A(2)E300 | | 3.4 | 6.0 | 300 | 700 | 600 | 300 |
| 10.0 | *X | T495X106(1)050A(2)E250 | | 5.0 | 8.0 | 250 | 774 | 697 | 309 |
| 10.0 | *X | T495X106(1)050A(2)E260 | | 5.0 | 6.0 | 260 | 796 | 716 | 318 |
| 10.0 | *X | T495X106(1)050A(2)E300 | | 5.0 | 6.0 | 300 | 741 | 667 | 297 |
| 15.0 | *X | T495X156(1)050A(2)E200 | | 7.5 | 8.0 | 200 | 908 | 817 | 363 |
| 15.0 | *X | T495X156(1)050A(2)E300 | | 7.5 | 8.0 | 300 | 742 | 667 | 297 |

- (1) To complete KEMET part number, insert "K" for $\pm 10\%$ or "M" for $\pm 20\%$ capacitance tolerance.
 (2) To complete KEMET part number, insert lead material designations per Ordering Information on page 31.
 *Extended Values

Higher voltage ratings and tighter capacitance tolerance product may be substituted within the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.



CAPACITOR MARKINGS



T495 TANTALUM CHIP CAPACITANCE VALUES

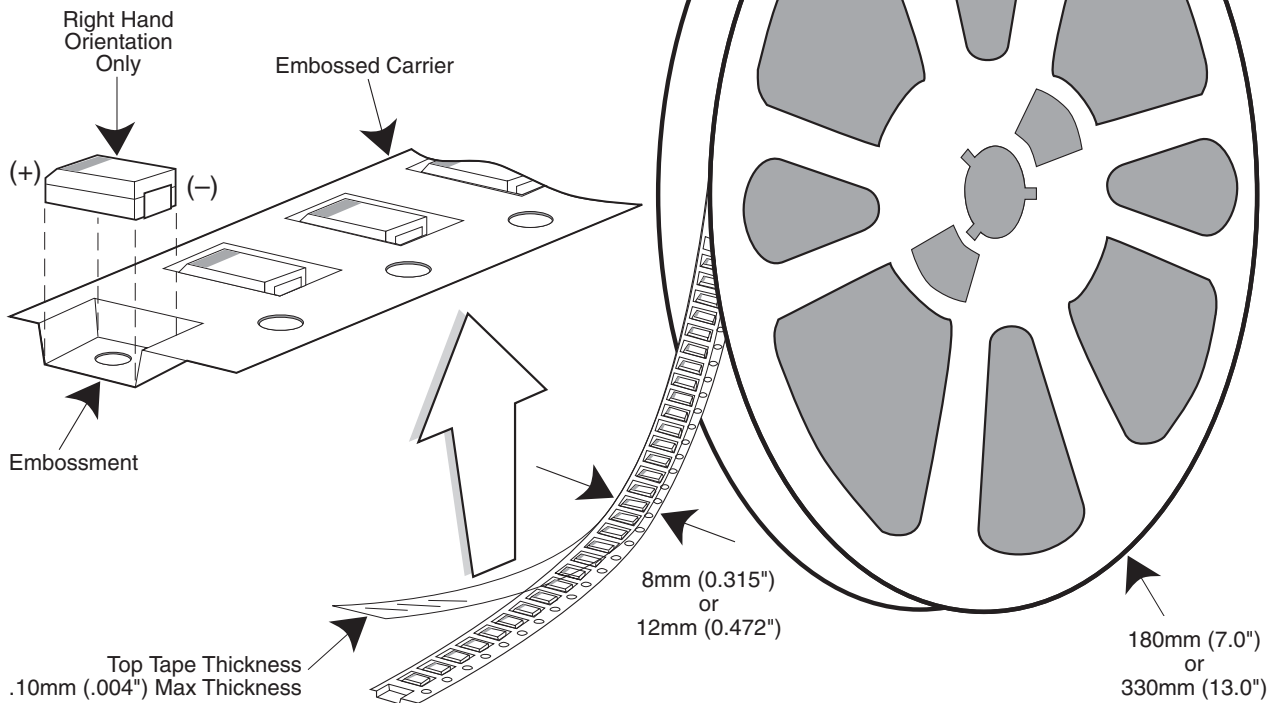
Case Size and Max. ESR (mΩ) by Capacitance & Voltage
Standard Capacitance Values

| Capacitance | | Rated Voltage @ +85°C | | | | | | | | |
|-------------|------|-----------------------|-------------------------|--|---|------------------------|---------------------------------------|-------------------------------|--|------------------------|
| μF | Code | 2.5 | 4 | 6 | 10 | 16 | 20 | 25 | 35 | 50 |
| 0.47 | 474 | | | | | | | A,4500 | B,1500 B,2200 | |
| 1.0 | 105 | | | | | | A,3000 | | A,3000 B,1500 B,1700 | C,1300 |
| 2.2 | 225 | | | | | A,1800 | | C,1300 | B,1500 C,750 | D,600 |
| 3.3 | 335 | | | | | A,3000 | | C,750 | B,900 C,525,550,600 | D,700 |
| 4.7 | 475 | | | | A,1300 B,1300 | A,2000 B,700 | | C,575 | B,1000 C,450,500 C,600 | D,275,300 X,300 |
| 6.8 | 685 | | | | A,1800 B,900 | C,750 | | B,1500 C,400,490,500 | D,400 X,300 | D,190,200,275 D,300 |
| 10.0 | 106 | | | | A,1800 B,750 | A,1700 T,4000 | B,1000 C,400,475 | B,750 C,450 | D,120,250,300 X,175,200 X,250 | X,250,300 |
| 15.0 | 156 | | | | B,500 C,375,400,475 | A,2500 B,800 | C,375 D,275 | D,275 X,200 | C,350 D,225,300 X,200,225 | X,300 |
| 22.0 | 226 | | | A,900 | B,500 C,290,345 | B,600 | D,180,225 D,275 | C, 300,900 D,200 X,225 | D,125,200,250 D300 X,125,200,275,300 | |
| 33.0 | 336 | | | | B,450 V,100,150 | | C,200,225,275 D,150,175,225,250 | D,100,150 200 | D,90,100 D,225,300 X,175 | D,300 X,100,175,250 |
| 47.0 | 476 | | | B,450 C,250 V,150 | B, 500 D,80,90,200 | C,350 D,100,150,200 | D,75,100,175 X,65,100 X,125,150 | D,120,250 X,80,150,185,200 | X,185,200,300 | |
| 68.0 | 686 | | V,150 | D,175 | V,70,100,140 B,600,750 B,900 C,80,225 D,90,125 X,150 | | V,180,300 D,150 | D,70,150 X,120,150 | X,125,150 200 | |
| 100.0 | 107 | T, 3000 | B,500 | V,90,150 B,400,700 C,150 D,150 | C, 100 V,100,150 D,50,65, 80,100 X,100 | | D,100,125 X,80,100,125 | X,150 E,85,100 200 | | |
| 150.0 | 157 | | B,900 C,70,250 | V,40,70 C,50,200 X,100,125 | C,200 D,50,60,80,100 X,70,80,85,100 V,100,150 | | D,100,125,150 0 X,75,100 | | | |
| 220.0 | 227 | D,45 | | C,225 D,45,100 X,70,100 | V,150 D,45,75 D,100,125 X, 45,50,60,70,100 | | X,100 E,100,150 | | | |
| 330.0 | 337 | | C,300,700 D,30,45 | X,45,65, X,100 D,40,50,70, D,100 E,40,60,100 | D,100,125 X,35,50,60 E,40,60,100 | | | | | |
| 470.0 | 477 | D,35 | D,45,100 X,30,45,100 | X,30,45,50, X,65 D,100,125 E,40,55,100 | X,45,50 | | | | | |
| 680.0 | 687 | | | | | | | | | |
| 1000.0 | 108 | X,40 | X,70 E,35,50 | E,50 | | | | | | |

Note that standard values are preferred, especially where high surge currents are possible. Extended values are available to increase capacitance and reduce ESR. Note that standard CV values demonstrate inherently lower failure rates than extended CV values, especially in low impedance applications.

Tape & Reel Packaging

KEMET's Molded Tantalum and Aluminum Chip Capacitor families are packaged in 8 mm and 12 mm plastic tape on 7" and 13" reels, in accordance with EIA Standard 481-1: Taping of Surface Mount Components for Automatic Handling. This packaging system is compatible with all tape fed automatic pick and place systems.



Labeling: Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. Refer to EIA-556.

QUANTITIES PACKAGED PER REEL

| Case Code | | Tape Width-mm | 7" Reel* | 13" Reel* |
|-----------|---------|---------------|----------|-----------|
| KEMET | EIA | | | |
| R | 2012-12 | 8 | 2,500 | 10,000 |
| S | 3216-12 | 8 | 2,500 | 10,000 |
| T | 3528-12 | 8 | 2,500 | 10,000 |
| U | 6032-15 | 12 | 1,000 | 5,000 |
| W | 7343-15 | 12 | 1,000 | 3,000 |
| V | 7343-20 | 12 | 1,000 | 3,000 |
| A | 3216-18 | 8 | 2,000 | 9,000 |
| B | 3528-21 | 8 | 2,000 | 8,000 |
| C | 6032-28 | 12 | 500 | 3,000 |
| D | 7343-31 | 12 | 500 | 2,500 |
| Y | 7343-40 | 12 | 500 | 2,000 |
| X | 7343-43 | 12 | 500 | 2,000 |
| E | 7260-38 | 12 | 500 | 2,000 |

* No c-spec required for 7" reel packaging. C-7280 required for 13" reel packaging.

TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS

Packaging Information

Performance Notes

- Cover Tape Break Force:** 1.0 Kg Minimum.
- Cover Tape Peel Strength:** The total peel strength of the cover tape from the carrier tape shall be:

| Tape Width | Peel Strength |
|------------|--|
| 8 mm | 0.1 Newton to 1.0 Newton (10g to 100g) |
| 12 mm | 0.1 Newton to 1.3 Newton (10g to 130g) |

The direction of the pull shall be opposite the direction of the carrier tape travel. The pull angle of the carrier tape shall be 165° to 180° from the plane of the carrier tape. During peeling, the carrier and/or cover tape shall be pulled at a velocity of 300 ±10 mm/minute.

- Reel Sizes:** Molded tantalum capacitors are available on either 180 mm (7") reels (standard) or 330 mm (13") reels (with C-7280). Note that 13" reels are preferred.
- Labeling:** Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. Refer to EIA-556.

Embossed Carrier Tape Configuration: Figure 1



Table 1 — EMBOSSED TAPE DIMENSIONS (Metric will govern)

| Constant Dimensions — Millimeters (Inches) | | | | | | | | | |
|--|--|-------------------------------|-------------------------------|-----------------------------|-----------------------------|--------------------|--------------------|------------------------------|--|
| Tape Size | D ₀ | E | P ₀ | P ₂ | T Max | T ₁ Max | | | |
| 8 mm and 12 mm | 1.5 +0.10 -0.0 (0.059 +0.004, -0.0) | 1.75 ±0.10 (0.069 ±0.004) | 4.0 ±0.10 (0.157 ±0.004) | 2.0 ±0.05 (0.079 ±0.002) | 0.600 (0.024) | 0.100 (0.004) | | | |
| Variable Dimensions — Millimeters (Inches) | | | | | | | | | |
| Tape Size | Pitch | B ₁ Max. Note 1 | D ₁ Min. Note 2 | F | P ₁ | R Min. Note 3 | T ₂ Max | W | A ₀ B ₀ K ₀ Note 4 |
| 8 mm | Single (4 mm) | 4.4 (0.173) | 1.0 (0.039) | 3.5 ±0.05 (0.138 ±0.002) | 4.0 ±0.10 (0.157 ±0.004) | 25.0 (0.984) | 2.5 (0.098) | 8.0 ±0.30 (.315 ±0.012) | |
| 12 mm | Double (8 mm) | 8.2 (0.323) | 1.5 (0.059) | 5.5 ±0.05 (0.217 ±0.002) | 8.0 ±0.10 (0.315 ±0.004) | 30.0 (1.181) | 4.6 (0.181) | 12.0 ±0.30 (0.472 ±0.012) | |

NOTES

- B1 dimension is a reference dimension for tape feeder clearance only.
- The embossment hole location shall be measured from the sprocket hole controlling the location of the embossment. Dimensions of embossment location and hole location shall be applied independent of each other.
- Tape with components shall pass around radius "R" without damage (see sketch A). The minimum trailer length (Fig. 2) may require additional length to provide R min. for 12 mm embossed tape for reels with hub diameters approaching N min. (Table 2)
- The cavity defined by A₀, B₀, and K₀ shall be configured to surround the part with sufficient clearance such that the chip does not protrude beyond the sealing plane of the cover tape, the chip can be removed from the cavity in a vertical direction without mechanical restriction, rotation of the chip is limited to 20 degrees maximum in all 3 planes, and lateral movement of the chip is restricted to 0.5 mm maximum in the pocket (not applicable to vertical clearance.)

Embossed Carrier Tape Configuration (cont.)



Sketch D: Tape Camber (Top View)



Figure 2:
Tape Leader & Trailer Dimensions (Metric Dimensions Will Govern)



Figure 3: Reel Dimensions (Metric Dimensions will govern)

Table 2 – REEL DIMENSIONS (Metric will govern)

| Tape Size | A Max | B* Min | C | D* Min | N Min | W ₁ | W ₂ Max | W ₃ |
|-----------|-------------------|----------------|--------------------------------|-----------------|--|--|--------------------|--|
| 8 mm | 330.0 (12.992) | 1.5 (0.059) | 13.0 ± 0.20 (0.512 ± 0.008) | 20.2 (0.795) | 50.0 (1.969) See Note 3 Table 1 | 8.4 +1.5, -0.0 (0.331) +0.059, -0.0) | 14.4 (0.567) | 7.9 Min (0.311) 10.9 Max (0.429) |
| 12 mm | 330.0 (12.992) | 1.5 (0.059) | 13.0 ± 0.20 (0.512 ± 0.008) | 20.2 (0.795) | 50.0 (1.969) See Note 3 Table 1 | 12.4 +2.0, -0.0 (0.488) +0.078, -0.0) | 18.4 (0.724) | 11.9 Min (0.469) 15.4 Max (0.606) |