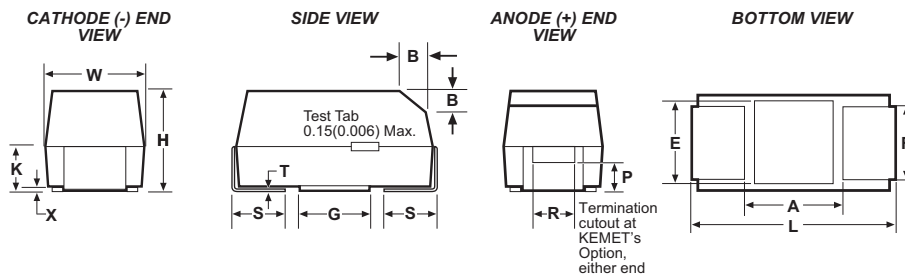


T496 Series - Fail-Safe Fused Tantalum Surface Mount Capacitor DSCC Dwg. 04053 Approved

| Features | |
|---|---|
| Built-in fuse protects against damaging short circuit failure mode | Fuse Actuation, 25°C: within 1 second at fault currents of 4 amps and higher |
| Precision-molded, laser-marked cases | Continuous current capability: 0.75 amps |
| Symmetrical, compliant terminations | Post-actuation resistance, 25°C: 10 megohms minimum |
| Case geometry and footprints equivalent to Industrial Grade T491 Series. (Case sizes B, C, D andn X only) | Test tabs on the sides of the case bypass the capacitor element allow direct testing of the fuse assembly |
| Patented fuse assembly | Operating Temperature: -55°C to +125°C |
| 100% Surge Current test on C, D, X sizes | Available tested per DSCC Dwg. 04053 |

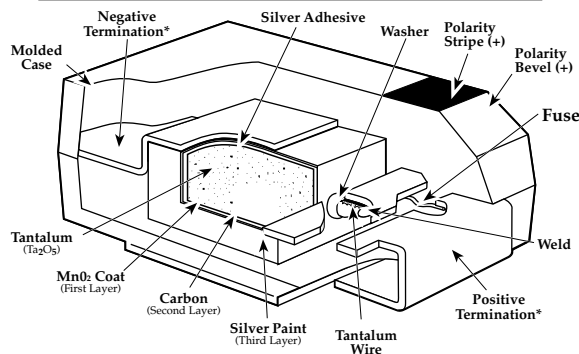
Outline Drawing



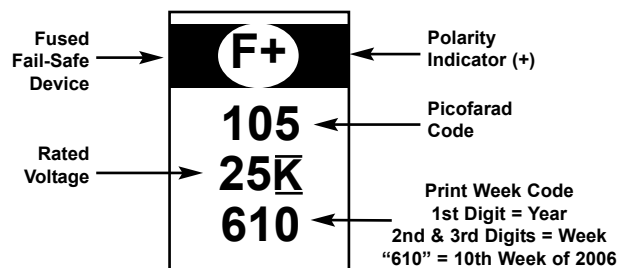
Dimensions – Millimeters

| KEMET Size Code | EIA Size Code | L Length | W Width | H Height | K ±0.20 ±(.008) | F ±0.10 ±(.004) | S ±0.30 ±(.012) | B(Ref) ±0.15 ±(.006) | X (Ref) | P (Ref) | R (Ref) | T (Ref) | A (Min) | G (Ref) | E (Ref) |
|-----------------|---------------|-----------------------------|-----------------------------|-----------------------------|-----------------|-----------------|-----------------|----------------------|------------------------------|---------------|---------------|----------------|---------------|---------------|---------------|
| B | 3528-21 | 3.5 ± 0.20 (.138 ± .008) | 2.8 ± 0.20 (.110 ± .008) | 1.9 ± 0.20 (.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 ± 0.30 (.236 ± .012) | 3.2 ± 0.30 (.126 ± .012) | 2.5 ± 0.30 (.098 ± .012) | 1.4 (.055) | 2.2 (.087) | 1.3 (.051) | 0.5 (.020) | 0.10 ± 0.10 (.004 ± .004) | 0.9 (.035) | 1.0 (.039) | 0.13 (.005) | 3.1 (.122) | 2.8 (.110) | 2.4 (.094) |
| D | 7343-31 | 7.3 ± 0.30 (.287 ± .012) | 4.3 ± 0.30 (.169 ± .012) | 2.8 ± 0.30 (.110 ± .012) | 1.5 (.059) | 2.4 (.094) | 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) |
| X | 7343-43 | 7.3 ± 0.30 (.287 ± .012) | 4.3 ± 0.30 (.169 ± .012) | 4.0 ± 0.30 (.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) |

Construction



Component Marking



Ratings & Part Number Reference

| Capacitance μ F | Case Size | KEMET Part Number | DSCC Dwg. No. 04053 Part Number | DCL μ A @ 25°C Max. | DF % @ +25°C 120 Hz. Max. | ESR Ω @ +25°C 100 kHz Max. |
|---|-----------|--------------------|---------------------------------|-------------------------|---------------------------|-----------------------------------|
| 4 Volt Rating at +85°C (2.7 Volt Rating at +125°C) | | | | | | |
| 68.0 | *C | T496C686M004AH4095 | 04053-001 | 2.7 | 6.0 | 1.6 |
| 100.0 | *C | T496C107M004AH4095 | 04053-002 | 4.0 | 8.0 | 1.2 |
| 150.0 | D | T496D157M004AH4095 | 04053-003 | 6.0 | 8.0 | 0.8 |
| 220.0 | *D | T496D227M004AH4095 | 04053-004 | 8.8 | 8.0 | 0.7 |
| #330.0 | *D | T496D337M004AH4095 | 04053-005 | 13.2 | 8.0 | 0.7 |
| 330.0 | *X | T496X337M004AH4095 | 04053-006 | 13.2 | 8.0 | 0.7 |
| #470.0 | *X | T496X477M004AH4095 | 04053-007 | 18.8 | 8.0 | 0.5 |
| **6 Volt Rating at +85°C (4 Volt Rating at +125°C) | | | | | | |
| 4.7 | B | T496B475M006AH4095 | 04053-008 | 0.5 | 6.0 | 3.5 |
| 6.8 | B | T496B685M006AH4095 | 04053-009 | 0.5 | 6.0 | 3.5 |
| 10.0 | B | T496B106M006AH4095 | 04053-010 | 0.6 | 6.0 | 3.5 |
| 15.0 | C | T496C156M006AH4095 | 04053-011 | 0.9 | 6.0 | 2.0 |
| 22.0 | B | T496B226M006AH4095 | 04053-012 | 1.3 | 6.0 | 3.5 |
| 22.0 | C | T496C226M006AH4095 | 04053-013 | 1.4 | 6.0 | 2.0 |
| 33.0 | C | T496C336M006AH4095 | 04053-014 | 2.0 | 6.0 | 2.0 |
| 47.0 | D | T496D476M006AH4095 | 04053-015 | 2.9 | 6.0 | 1.0 |
| 47.0 | *C | T496C476M006AH4095 | 04053-016 | 2.9 | 6.0 | 1.6 |
| 68.0 | D | T496D686M006AH4095 | 04053-017 | 4.1 | 6.0 | 1.0 |
| #68.0 | *C | T496C686M006AH4095 | 04053-018 | 4.1 | 6.0 | 1.2 |
| 100.0 | X | T496X107M006AH4095 | 04053-019 | 6.0 | 8.0 | 0.9 |
| 100.0 | D | T496D107M006AH4095 | 04053-020 | 6.0 | 8.0 | 0.8 |
| 150.0 | *D | T496D157M006AH4095 | 04053-021 | 9.0 | 8.0 | 0.7 |
| #220.0 | *D | T496D227M006AH4095 | 04053-022 | 13.2 | 8.0 | 0.7 |
| 220.0 | *X | T496X227M006AH4095 | 04053-023 | 13.2 | 8.0 | 0.7 |
| #330.0 | *X | T496X337M006AH4095 | 04053-024 | 19.8 | 8.0 | 0.5 |
| 10 Volt Rating at +85°C (7 Volt Rating at + 125°C) | | | | | | |
| 3.3 | B | T496B335M010AH4095 | 04053-025 | 0.5 | 6.0 | 3.5 |
| 4.7 | B | T496B475M010AH4095 | 04053-026 | 0.5 | 6.0 | 3.5 |
| 6.8 | B | T496B685M010AH4095 | 04053-027 | 0.7 | 6.0 | 3.5 |
| 10.0 | C | T496C106M010AH4095 | 04053-028 | 1.0 | 6.0 | 2.0 |
| 15.0 | B | T496B156M010AH4095 | 04053-029 | 1.5 | 6.0 | 3.5 |
| 15.0 | C | T496C156M010AH4095 | 04053-030 | 1.5 | 6.0 | 2.0 |
| 22.0 | C | T496C226M010AH4095 | 04053-031 | 2.2 | 6.0 | 2.0 |
| 33.0 | D | T496D336M010AH4095 | 04053-032 | 3.3 | 6.0 | 1.0 |
| 33.0 | *C | T496C336M010AH4095 | 04053-033 | 3.3 | 6.0 | 1.6 |
| 47.0 | D | T496D476M010AH4095 | 04053-034 | 4.7 | 6.0 | 1.0 |
| #47.0 | *C | T496C476M010AH4095 | 04053-035 | 4.7 | 6.0 | 1.2 |
| 68.0 | X | T496X686M010AH4095 | 04053-036 | 6.8 | 6.0 | 0.9 |
| 68.0 | D | T496D686M010AH4095 | 04053-037 | 6.8 | 6.0 | 0.8 |
| 100.0 | D | T496D107M010AH4095 | 04053-038 | 10.0 | 8.0 | 0.7 |
| 150.0 | *X | T496X157M010AH4095 | 04053-039 | 15.0 | 8.0 | 0.7 |
| #150.0 | *D | T496D157M010AH4095 | 04053-040 | 15.0 | 8.0 | 0.7 |
| #220.0 | *X | T496X227M010AH4095 | 04053-041 | 22.0 | 8.0 | 0.5 |
| 16 Volt Rating at +85°C (10 Volt Rating at +125°C) | | | | | | |
| 2.2 | B | T496B225M016AH4095 | 04053-042 | 0.5 | 6.0 | 3.5 |
| 3.3 | B | T496B335M016AH4095 | 04053-043 | 0.5 | 6.0 | 3.5 |
| 4.7 | B | T496B475M016AH4095 | 04053-044 | 0.8 | 6.0 | 3.5 |
| 6.8 | C | T496C685M016AH4095 | 04053-045 | 1.1 | 6.0 | 2.0 |
| 10.0 | B | T496B106M016AH4095 | 04053-046 | 1.6 | 6.0 | 3.5 |
| 10.0 | C | T496C106M016AH4095 | 04053-047 | 1.6 | 6.0 | 2.0 |
| 15.0 | C | T496C156M016AH4095 | 04053-048 | 2.4 | 6.0 | 2.0 |
| 22.0 | D | T496D226M016AH4095 | 04053-049 | 3.6 | 6.0 | 1.0 |
| 22.0 | *C | T496C226M016AH4095 | 04053-050 | 3.6 | 6.0 | 1.6 |
| 33.0 | D | T496D336M016AH4095 | 04053-051 | 5.3 | 6.0 | 1.0 |
| 47.0 | X | T496X476M016AH4095 | 04053-052 | 7.5 | 6.0 | 0.9 |
| 47.0 | D | T496D476M016AH4095 | 04053-053 | 7.5 | 6.0 | 0.8 |
| 100.0 | *X | T496X107M016AH4095 | 04053-054 | 16.0 | 8.0 | 0.7 |

Ratings & Part Number Reference

| Capacitance μ F | Case Size | KEMET Part Number | DSCC Dwg. No. 04053 Part Number | DCL μ A @ 25°C Max. | DF % @ +25°C 120 Hz. Max. | ESR Ω @ +25°C 100 kHz Max. |
|---|-----------|--------------------|---------------------------------|-------------------------|---------------------------|-----------------------------------|
| 20 Volt Rating at +85°C (13 Volt Rating at +125°C) | | | | | | |
| 1.5 | B | T496B155M020AH4095 | 04053-055 | 0.5 | 6.0 | 5.0 |
| 2.2 | B | T496B225M020AH4095 | 04053-056 | 0.5 | 6.0 | 3.5 |
| 3.3 | B | T496B335M020AH4095 | 04053-057 | 0.7 | 6.0 | 3.5 |
| 4.7 | C | T496C475M020AH4095 | 04053-058 | 1.0 | 6.0 | 2.0 |
| 6.8 | C | T496C685M020AH4095 | 04053-059 | 1.4 | 6.0 | 2.0 |
| 10.0 | C | T496C106M020AH4095 | 04053-060 | 2.0 | 6.0 | 2.0 |
| 15.0 | D | T496D156M020AH4095 | 04053-061 | 3.0 | 6.0 | 1.0 |
| 22.0 | D | T496D226M020AH4095 | 04053-062 | 4.4 | 6.0 | 1.0 |
| 33.0 | X | T496X336M020AH4095 | 04053-063 | 6.6 | 6.0 | 0.9 |
| 47.0 | X | T496X476M020AH4095 | 04053-064 | 9.4 | 6.0 | 0.3 |
| 25 Volt Rating at +85°C (17 Volt Rating at +125°C) | | | | | | |
| 0.68 | B | T496B684M025AH4095 | 04053-065 | 0.5 | 4.0 | 6.5 |
| 1.0 | B | T496B105M025AH4095 | 04053-066 | 0.5 | 4.0 | 5.0 |
| 1.5 | B | T496B155M025AH4095 | 04053-067 | 0.5 | 6.0 | 5.0 |
| 2.2 | C | T496C225M025AH4095 | 04053-068 | 0.6 | 6.0 | 3.5 |
| 3.3 | C | T496C335M025AH4095 | 04053-069 | 0.9 | 6.0 | 2.5 |
| 4.7 | C | T496C475M025AH4095 | 04053-070 | 1.2 | 6.0 | 2.5 |
| 6.8 | C | T496C685M025AH4095 | 04053-071 | 1.7 | 6.0 | 2.0 |
| 10.0 | C | T496C106M025AH4095 | 04053-072 | 2.5 | 6.0 | 0.6 |
| 10.0 | D | T496D106M025AH4095 | 04053-073 | 2.5 | 6.0 | 1.2 |
| 15.0 | D | T496D156M025AH4095 | 04053-074 | 3.8 | 6.0 | 1.0 |
| 22.0 | X | T496X226M025AH4095 | 04053-075 | 5.5 | 6.0 | 0.9 |
| 22.0 | D | T496D226M025AH4095 | 04053-076 | 5.5 | 6.0 | 0.8 |
| 35 Volt Rating at +85°C (23 Volt Rating at +125°C) | | | | | | |
| 0.47 | B | T496B474M035AH4095 | 04053-077 | 0.5 | 4.0 | 8.0 |
| 0.68 | B | T496B684M035AH4095 | 04053-078 | 0.5 | 4.0 | 6.5 |
| 1.0 | B | T496B105M035AH4095 | 04053-079 | 0.5 | 4.0 | 5.0 |
| 1.5 | C | T496C155M035AH4095 | 04053-080 | 0.5 | 6.0 | 4.5 |
| 2.2 | C | T496C225M035AH4095 | 04053-081 | 0.8 | 6.0 | 3.5 |
| 3.3 | C | T496C335M035AH4095 | 04053-082 | 1.2 | 6.0 | 2.5 |
| 4.7 | D | T496D475M035AH4095 | 04053-083 | 1.7 | 6.0 | 1.5 |
| 6.8 | D | T496D685M035AH4095 | 04053-084 | 2.4 | 6.0 | 1.3 |
| 10.0 | X | T496X106M035AH4095 | 04053-085 | 3.5 | 6.0 | 1.0 |
| 15.0 | *X | T496X156M035AH4095 | 04053-086 | 5.3 | 6.0 | 0.9 |
| 22.0 | *X | T496X226M035AH4095 | 04053-087 | 7.7 | 6.0 | 0.3 |
| 50 Volt Rating at +85°C (33 Volt Rating at +125°C) | | | | | | |
| 0.15 | B | T496B154M050AH4095 | 04053-088 | 0.5 | 4.0 | 16.0 |
| 0.22 | B | T496B224M050AH4095 | 04053-089 | 0.5 | 4.0 | 14.0 |
| 0.33 | B | T496B334M050AH4095 | 04053-090 | 0.5 | 4.0 | 10.0 |
| 0.47 | C | T496C474M050AH4095 | 04053-091 | 0.5 | 4.0 | 8.0 |
| 0.68 | C | T496C684M050AH4095 | 04053-092 | 0.5 | 4.0 | 7.0 |
| 1.0 | C | T496C105M050AH4095 | 04053-093 | 0.5 | 4.0 | 5.5 |
| 1.5 | C | T496C155M050AH4095 | 04053-094 | 0.8 | 6.0 | 5.0 |
| 2.2 | D | T496D225M050AH4095 | 04053-095 | 1.1 | 6.0 | 2.5 |
| 3.3 | D | T496D335M050AH4095 | 04053-096 | 1.7 | 6.0 | 2.0 |

Ordering Information

