



Tantalum Surface Mount Capacitors

T496 Fused MnO₂ Series (Commercial, COTS & Space Grade)



Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

Features & Benefits

- Patented built-in fuse design provides excellent protection from short circuit conditions
- Suitable for use in high-reliability applications
- Incorporates intensive testing and screening protocol
- 100% surge current testing options per MIL-PRF-55365 available
- DLA (DSCC) Drawing 04053 available
- Halogen-free epoxy
- -55°C to 125°C operating temperature range
- Weibull grading option B, C and D
- Meets or exceeds EIA standard 535BAACC
- Fuse activation, 25°C: within 1 second at fault currents of 4 amps and higher
- Continuous current capability: 0.75 amps
- Post actuation resistance, 25°C: 10 MΩ, minimum
- Test tabs on side of case bypass the capacitor element to allow direct testing of the fuse assembly
- RoHS compliance when ordered with 100% Sn solder

Product Checklist

- Is this a critical and/or safety relevant circuit requiring a fail-safe solution?
- Do you require a fused polymer capacitance solution?
- How much current is required to actuate the fuse?
- What duration of post actuation of the current is required?
- Is a residual connection required, even after the fuse has actuated?
- What ESR impact of the fuse is required?
- Is intensive testing and screening protocol required?
- Do you require a customizable solution?

For more information, samples and engineering kits, please visit us at www.kemet.com or call 1.877.myKEMET.

Programs Supported

- Decoupling and filtering in computing, telecommunications, defense, aerospace and industrial end applications requiring built-in fuse capability



T496 Series Product Comparison & Ordering Information

Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VDC)	Failure Rate/Design	Lead Material	Testing
T496 Fused MnO₂ Series Commercial Grade							
T496= Tantalum Fail Safe	B=3528-21 C=6032-28 D=7343-31 X=7343-43	First 2 digits represent significant figures. Third digit specifies number of zeros.	K= ±10% M= ±20%	004=4 006=6.3 010=10 015=15	A=N/A	T=100% Matte Tin (Sn) Plated H=Standard Solder Coated (SnPb 5% Pb minimum)	N/A
T496 Hi-Rel Fused COTS MnO₂ Series & DLA (DSCC) Drawing 04053							
T496= Tantalum Fail Safe	B=3528-21 C=6032-28 D=7343-31 X=7343-43	First 2 digits represent significant figures. Third digit specifies number of zeros.	K= ±10% M= ±20%	004=4 006=6.3 010=10 015=15 020=20 025=25 035=35 050=50	B=0.1%/1,000 hrs. C=0.01%/1,000 hrs. D=0.001%/1,000 hrs. Z=Non-Weibull Graded	T=100% Matte Tin (Sn) Plated H=Standard Solder Coated (SnPb 5% Pb minimum) C=Hot Solder Dipped K=Solder Fused	61=Surge None 62=Surge @ 25°C after Weibull 63=Surge -55°C & +85°C after Weibull 64=Surge -55°C & +85°C before Weibull
T496 Fused MnO₂ Series Space Grade							
T496= Fail Safe	B=3528-21 C=6032-28 D=7343-31 X=7343-43	First 2 digits represent significant figures. Third digit specifies number of zeros.	K= ±10% M= ±20%	004=4 006=6.3 010=10 015=15 020=20 025=25 035=35 050=50	C=0.01%/1,000 hrs.	T=100% Matte Tin (Sn) Plated H=Standard Solder Coated (SnPb 5% Pb minimum)	N/A