

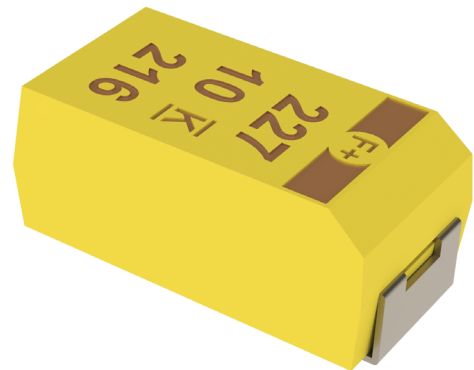
Overview

The T496 tantalum chip capacitors offer a "fail safe" design. The built-in fuse element offers excellent protection from damaging short circuit conditions in applications where damaging high fault currents exist. Protection from costly

circuit damage due to reversed installation is offered with this device. This series is classified as MSL (Moisture Sensitivity Level) 1 under J STD 020: unlimited floor life time at ≤ 30°C/85% RH.

Benefits

- Meets or exceeds EIA Standard 535BAAC
- Patented fuse assembly
- Optional gold-plated terminations
- Built-in fuse protects against short circuit mode
- 100% surge current test on C, D, and X sizes
- Halogen-free epoxy
- Capacitance values of 0.15 to 330 μ F
- Tolerances of $\pm 10\%$ and $\pm 20\%$
- Voltage rating of 4 – 50 VDC
- 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 M Ω , minimum
- Test tabs on side of case bypass the capacitor element to allow direct testing of the fuse assembly
- RoHS compliant and lead-free terminations
- Operating temperature range of -55°C to +125°C



Applications

Typical applications include decoupling and filtering in computing and telecommunications end applications, such as high-end servers requiring built-in fuse capability.

Environmental Compliance

RoHS compliant when ordered with 100% Sn solder.

- Halogen-free
- Epoxy compliant with UL94 V-0
- Molded Epoxy complies for outgassing testing under ASTM E 595.

K-SIM

For a detailed analysis of specific part numbers, please visit ksim.kemet.com to access KEMET’s K-SIM software. KEMET K-SIM is designed to simulate behavior of components with respect to frequency, ambient temperature, and DC bias levels.

Ordering Information

T	496	X	227	M	010	A	T	E500	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate/ Design	Termination Finish	ESR	Packaging (C-Spec)
T = Tantalum	Fail Safe	B C D X	First two digits represent significant figures. Third digit specifies number of zeros.	K = ±10% M = ±20%	004 = 4 006 = 6.3 010 = 10 016 = 16 020 = 20 025 = 25 035 = 35 050 = 50	A = N/A	T = 100% Matte tin (Sn)-plated H = Standard solder coated (SnPb 5% Pb minimum)	E = ESR Last three digits specify ESR in mΩ (500 = 500 mΩ)	Blank = 7" reel 7280 = 13" reel

Performance Characteristics

Item	Performance Characteristics
Operating Temperature	-55°C to 125°C
Rated Capacitance Range	0.15 – 477 µF at 120 Hz/25°C
Capacitance Tolerance	K tolerance (10%), M tolerance (20%)
Rated Voltage Range	4 – 50 V
DF (120 Hz)	Refer to Part Number Electrical Specification Table
ESR (100 kHz)	Refer to Part Number Electrical Specification Table
Leakage Current	≤ 0.01 CV (µA) at rated voltage after 5 minutes

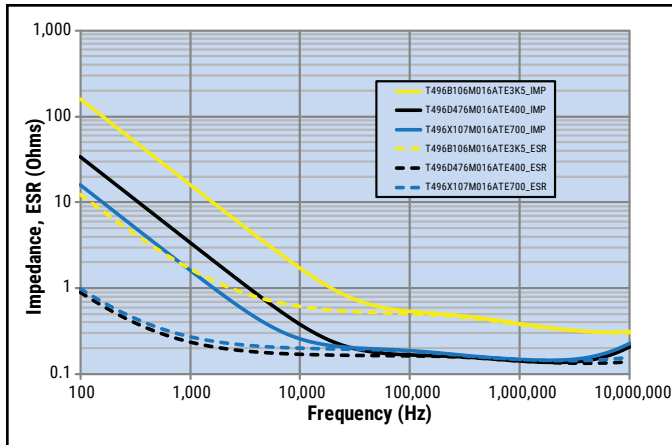
Qualification

Test	Condition	Characteristics				
Endurance	85°C at rated voltage, 2,000 hours 125°C at 2/3 rated voltage, 2,000 hours	Δ C/C	Within ±10% of initial value			
		DF	Within initial limits			
		DCL	Within 1.25 x initial limit			
		ESR	Within initial limits			
Storage Life	125°C at 0 volts, 2,000 hours	Δ C/C	Within ±10% of initial value			
		DF	Within initial limits			
		DCL	Within 1.25 x initial limit			
		ESR	Within initial limits			
Thermal Shock	MIL-STD-202, Method 107, Condition B, mounted, -55°C to 125°C, 1,000 cycles	Δ C/C	Within ±5% of initial value			
		DF	Within initial limits			
		DCL	Within 1.25 x initial limit			
		ESR	Within initial limits			
Temperature Stability	Extreme temperature exposure at a succession of continuous steps at +25°C, -55°C, +25°C, +85°C, +125°C, +25°C	Δ C/C	+25°C	-55°C	+85°C	+125°C
		DF	IL*	±10%	±10%	±20%
		DCL	IL	IL	1.5 x IL	1.5 x IL
Surge Voltage	85°C, 1.32 x rated voltage 1,000 cycles (125°C, 1.2 x rated voltage)	Δ C/C	Within ±5% of initial value			
		DF	Within initial limits			
		DCL	Within initial limits			
		ESR	Within initial limits			
Mechanical Shock/ Vibration	MIL-STD-202, Method 213, Condition I, 100 G Peak MIL-STD-202, Method 204, Condition D, 10 Hz to 2,000 Hz, 20 G peak	Δ C/C	Within ±10% of initial value			
		DF	Within initial limits			
		DCL	Within initial limits			

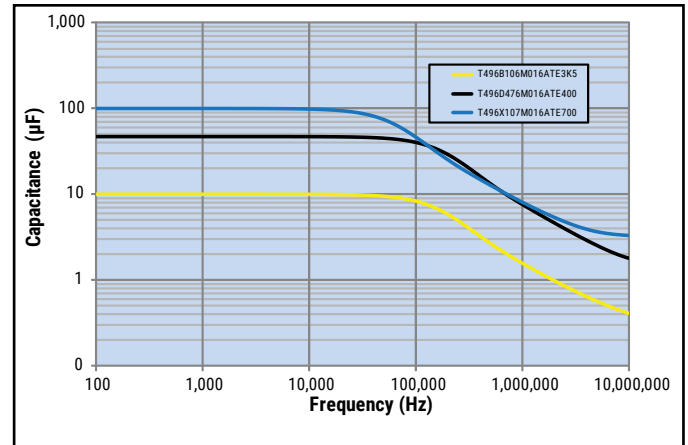
Tantalum Surface Mount Capacitors – Fused

T496 Fused MnO₂

ESR vs. Frequency

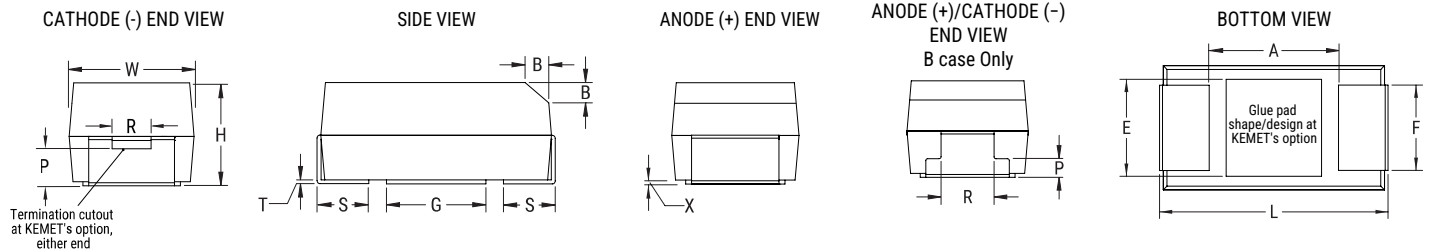


Capacitance vs. Frequency



Dimensions – Millimeters (Inches)

Metric will govern



Case Size		Component													Typical Weight
KEMET	EIA	L	W	H	F ±0.1 ±(0.004)	S ±0.3 ±(0.012)	B ±0.15 (Ref) ±0.006	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)	(mg)
B	3528-21	3.5 ±0.2 (0.138 ±0.008)	2.8 ±0.2 (0.110 ±0.008)	1.9 ±0.2 (0.075 ±0.008)	2.2 (0.087)	0.8 (0.031)	0.4 (0.016)	0.10 ±0.10 (0.004 ±0.004)	0.4 (0.016)	1.5 (0.059)	0.13 (0.005)	1.9 (0.075)	1.8 (0.071)	2.2 (0.087)	107.45
C	6032-28	6.0 ±0.3 (0.236 ±0.012)	3.2 ±0.3 (0.126 ±0.012)	2.5 ±0.3 (0.098 ±0.012)	2.2 (0.087)	1.3 (0.051)	0.5 (0.020)	0.10 ±0.10 (0.004 ±0.004)	0.9 (0.035)	1.0 (0.039)	0.13 (0.005)	3.1 (0.122)	2.8 (0.110)	2.4 (0.094)	224.48
D	7343-31	7.3 ±0.3 (0.287 ±0.012)	4.3 ±0.3 (0.169 ±0.012)	2.8 ±0.3 (0.110 ±0.012)	2.4 (0.094)	1.3 (0.051)	0.5 (0.020)	0.1							

Tantalum Surface Mount Capacitors – Fused

T496 Fused MnO2

Table 1 – Ratings & Part Number Reference

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +25°C Max/5 Min	% at +25°C 120 Hz % Max	mΩ at +25°C 100 kHz Max	mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz	°C	Reflow Temp ≤ 260°C
4	68	C/6032-28	T496C686(1)004A(2)E1K6	2.7	6.0	1600	262	236	105	125	1
4	68	C/6032-28	T496C686(1)004A(2)E400	2.7	6.0	400	524	472	210	125	1
4	100	C/6032-28	T496C107(1)004A(2)E1K2	4.0	8.0	1200	303	273	121	125	1
4	150	D/7343-31	T496D157(1)004A(2)E800	6.0	8.0	800	433	390	173	125	1
4	150	C/6032-28	T496C157(1)004A(2)E1K2	6.0	8.0	1200	303	273	121	125	1
4	220	D/7343-31	T496D227(1)004A(2)E700	8.8	8.0	700	463	417	185	125	1
4	220	D/7343-31	T496D227(1)004A(2)E400	8.8	8.0	400	612	551	245	125	1
4	330	D/7343-31	T496D337(1)004A(2)E700	13.2	8.0	700	463	417	185	125	1
4	330	D/7343-31	T496D337(1)004A(2)E400	13.2	8.0	400	612	551	245	125	1
4	330	X/7343-43	T496X337(1)004A(2)E700	13.2	8.0	700	486	437	194	125	1
4	470	X/7343-43	T496X477(1)004A(2)E500	18.8	8.0	500	574	517	230	125	1
6.3	4.7	B/3528-21	T496B475(1)006A(2)E3K5	0.3	6.0	3500	156	140	62</		

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μA at +25°C Max/5 Min	% at +25°C 120 Hz % Max	mΩ at +25°C 100 kHz Max	mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz	°C	Reflow Temp ≤ 260°C
10	22	C/6032-28	T496C226(1)010A(2)E2K0	2.2	6.0	2000	235	212	94	125	1
10	22	C/6032-28	T496C226(1)010A(2)E500	2.2	6.0	500	469	422	188	125	1
10	33	D/7343-31	T496D336(1)010A(2)E1K0	3.3	6.0	1000	387	348	155	125	1
10	33	D/7343-31	T496D336(1)010A(2)E400	3.3	6.0	400	612	551	245	125	1
10	33	C/6032-28	T496C336(1)010A(2)E1K6	3.3	6.0	1600	262	236	105	125	1
10	33	C/6032-28	T496C336(1)010A(2)E400	3.3	6.0	400	524	472	210	125	1
10	47	D/7343-31	T496D476(1)010A(2)E1K0	4.7	6.0	1000	387	348	155	125	1
10	47	D/7343-31	T496D476(1)010A(2)E400	4.7	6.0	400	612	551	245	125	1
10	47	C/6032-28	T496C476(1)010A(2)E1K2	4.7	6.0	1200	303	273	121	125	1
10	47	C/6032-28	T496C476(1)010A(2)E400	4.7	6.0	400	524	472	210	125	1
10	68	X/7343-43	T496X686(1)010A(2)E900	6.8	6.0	900	428	385	171	125	1
10	68	D/7343-31	T496D686(1)010A(2)E800	6.8	6.0	800	433	390	173	125	1</

Table 1 – Ratings & Part Number Reference cont.

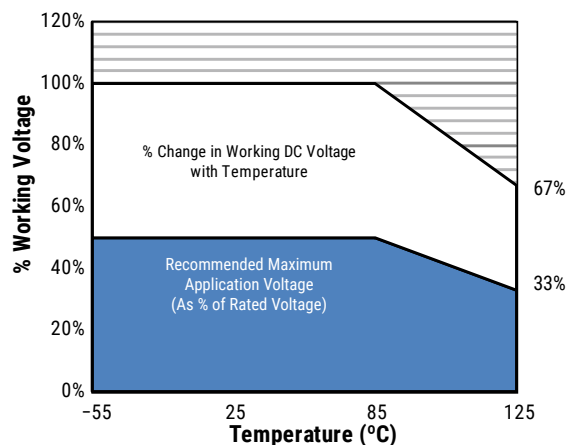
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μA at +25°C Max/5 Min	% at +25°C 120 Hz % Max	mΩ at +25°C 100 kHz Max	mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz	°C	Reflow Temp ≤ 260°C
16	100	X/7343-43	T496X107(1)016A(2)E700	16.0	8.0	700	486	437	194	125	1
20	1.5	B/3528-21	T496B155(1)020A(2)E5K0	0.3	6.0	5000	130	117	52	125	1
20	2.2	B/3528-21	T496B225(1)020A(2)E3K5	0.4	6.0	3500	156	140	62	125	1
20	2.2	B/3528-21	T496B225(1)020A(2)E1K6	0.4	6.0	1600	230	207	92	125	1
20	3.3	B/3528-21	T496B335(1)020A(2)E3K5	0.7	6.0	3500	156	140	62	125	1
20	4.7	C/6032-28	T496C475(1)020A(2)E2K0	0.9	6.0	2000	235	212	94	125	1
20	6.8	C/6032-28	T496C685(1)020A(2)E2K0	1.4	6.0	2000	235	212	94	125	1
20	6.8	C/6032-28	T496C685(1)020A(2)E600	1.4	6.0	600	428	385	171	125	1
20	10	C/6032-28	T496C106(1)020A(2)E2K0	2.0	6.0	2000	235	212	94	125	1
20	10	C/6032-28	T496C106(1)020A(2)E800	2.0	6.0	800	371	334	148	125	1
20	15	D/7343-31	T496D156(1)020A(2)E1K0	3.0	6.0	1000	387	348	155	125	1
20	15	D/7343-31	T496D156(1)020A(2)E500	3.0	6.0	500	548	493	21		

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μA at +25°C Max/5 Min	% at +25°C 120 Hz % Max	mΩ at +25°C 100 kHz Max	mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz	°C	Reflow Temp ≤ 260°C
35	1	B/3528-21	T496B105(1)035A(2)E5K0	0.4	4.0	5000	130	117	52	125	1
35	1	B/3528-21	T496B105(1)035A(2)E3K1	0.4	4.0	3100	166	149	66	125	1
35	1.5	C/6032-28	T496C155(1)035A(2)E4K5	0.5	6.0	4500	156	140	62	125	1
35	1.5	C/6032-28	T496C155(1)035A(2)E2K6	0.5	6.0	2600	206	185	82	125	1
35	2.2	C/6032-28	T496C225(1)035A(2)E3K5	0.8	6.0	3500	177	159	71	125	1
35	2.2	C/6032-28	T496C225(1)035A(2)E1K6	0.8	6.0	1600	262	236	105	125	1
35	3.3	C/6032-28	T496C335(1)035A(2)E2K5	1.2	6.0	2500	210	189	84	125	1
35	3.3	C/6032-28	T496C335(1)035A(2)E900	1.2	6.0	900	350	315	140	125	1
35	4.7	D/7343-31	T496D475(1)035A(2)E1K5	1.6	6.0	1500	316	284	126	125	1
35	4.7	D/7343-31	T496D475(1)035A(2)E700	1.6	6.0	700	463	417	185	125	1
35	6.8	D/7343-31	T496D685(1)035A(2)E1K3	2.4	6.0	1300	340	306	136	125	1
35	6.8	D/7343-31	T496D685(1)035A(2)E750	2.4	6.0	750	447	402			

Recommended Voltage Derating Guidelines

	-55°C to 85°C	85°C to 125°C
% Change in working DC voltage with temperature	V_R	67% of V_R
Recommended maximum application voltage	50% of V_R	33% of V_R



Ripple Current/Ripple Voltage

Permissible AC ripple voltage and current are related to equivalent series resistance (ESR) and the power dissipation capabilities of the device. Permissible AC ripple voltage which may be applied is limited by two criteria:

1. The positive peak AC voltage plus the DC bias voltage, if any, must not exceed the DC voltage rating of the capacitor.
2. The negative peak AC voltage in combination with bias voltage, if any, must not exceed the allowable limits specified for reverse voltage. See the Reverse Voltage section for allowable limits.

The maximum power dissipation by case size can be determined using the table at right. The maximum power dissipation rating stated in the table must be reduced with increasing environmental operating temperatures. Refer to the table below for temperature compensation requirements.

Temperature Compensation Multipliers for Maximum Ripple Current		
$T \leq 25^\circ\text{C}$	$T \leq 85^\circ\text{C}$	$T \leq 125^\circ\text{C}$
1.00	0.90	0.40

T = Environmental Temperature

The maximum power dissipation rating must be reduced with increasing environmental operating temperatures. Refer to the Temperature Compensation Multip

KEMET Case Code	EIA Case Code	Maximum Power Dissipation (P max) mWatts at 25°C w/+20°C Rise
A	3216-18	75
B	3528-21	85
C	6032-28	110
D	7343-31	150
X	7343-43	165
E	7360-38	200
S	3216-12	60
T	3528-12	70
U	6032-15	90
V	7343-20	125
T510X	7343-43	270
T510E	7360-38	285

Reverse Voltage

Solid tantalum capacitors are polar devices and may be permanently damaged or destroyed if connected with the wrong polarity. The positive terminal is identified on the capacitor body by a stripe plus in some cases a beveled edge. A small degree of transient reverse voltage is permissible for short periods per the table. The capacitors should not be operated continuously in reverse mode, even within these limits.

Temperature	Permissible Transient Reverse Voltage
25°C	15% of Rated Voltage
85°C	5% of Rated Voltage
125°C	1% of Rated Voltage

Table 2 – Land Dimensions/Courtyard

KEMET	Metric Size Code	Density Level A: Maximum (Most) Land Protrusion (mm)					Density Level B: Median (Nominal) Land Protrusion (mm)					Density Level C: Minimum (Least) Land Protrusion (mm)				
		W	L	S	V1	V2	W	L	S	V1	V2	W	L	S	V1	V2
B	3528-21	2.35	2.21	0.92	6.32	4.00	2.23	1.80	1.12	5.22	3.50	2.13	1.42	1.28	4.36	3.24
C	6032-28	2.35	2.77	2.37	8.92	4.50	2.23	2.37	2.57	7.82	4.00	2.13	1.99	2.73	6.96	3.74
D	7343-31	2.55	2.77	3.67	10.22	5.60	2.43	2.37	3.87	9.12	5.10	2.33	1.99	4.03	8.26	4.84
X ¹	7343-43	2.55	2.77	3.67	10.22	5.60	2.43	2.37	3.87	9.12	5.10	2.33	1.99	4.03	8.26	4.84

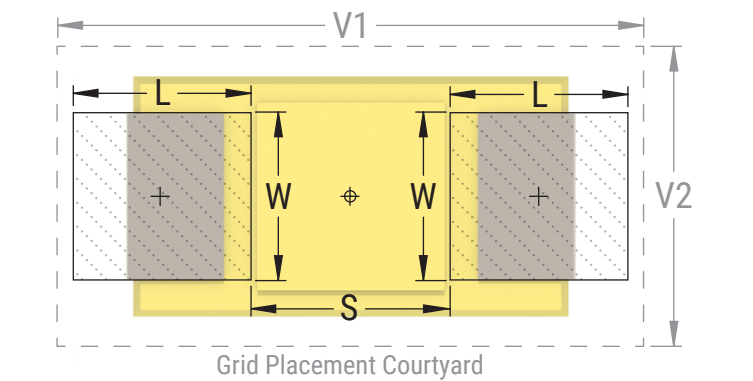
Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

Density Level B: For products with a moderate level of component density. Provides a robust solder attachment condition for reflow solder processes.

Density Level C: For high component density product applications. Before adapting the minimum land pattern variations the user should perform qualification testing based on the conditions outlined in IPC standard 7351 (IPC-7351).

¹ Height of these chips may create problems in wave soldering.

² Land pattern geometry is too small for silkscreen outline.



Soldering Process

The KEMET families of surface mount capacitors are compatible with wave (single or dual), convection, IR, or vapor phase reflow techniques. Preheating of these components is recommended to avoid extreme thermal stress. KEMET's recommended profile conditions for convection and IR reflow reflect the profile conditions of the IPC/J-STD-020D standard for moisture sensitivity testing. The devices can safely withstand a maximum of three reflow passes at these conditions.

Please note that although the X/7343-43 case size can withstand wave soldering, the tall profile (4.3 mm maximum) dictates care in wave process development.

Hand soldering should be performed with care due to the difficulty in process control. If performed, care should be taken to avoid contact of the soldering iron to the molded case. The iron should be used to heat the solder pad, applying solder between the pad and the termination, until reflow occurs. Once reflow occurs, the iron should be removed immediately. "Wiping" the edges of a chip and heating the top surface is not recommended.

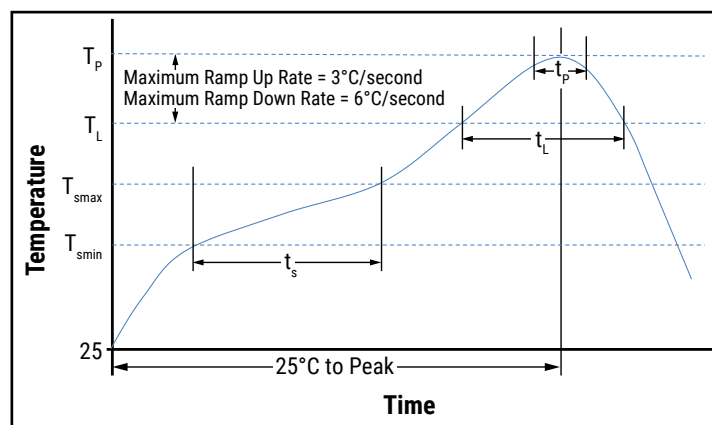
During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

Profile Feature	SnPb Assembly	Pb-Free Assembly
Preheat/Soak		
Temperature Minimum (T_{smin})	100°C	150°C
Temperature Maximum (T_{smax})	150°C	200°C
Time (t_s) from T_{smin} to T_{smax}	60 – 120 seconds	60 – 120 seconds
Ramp-up Rate (T_L to T_P)	3°C/second maximum	3°C/second maximum
Liquidous Temperature (T_L)	183°C	217°C
Time Above Liquidous (t_L)	60 – 150 seconds	60 – 150 seconds
Peak Temperature (T_P)	220°C* 235°C**	250°C* 260°C**
Time within 5°C of Maximum Peak Temperature (t_p)	20 seconds maximum	30 seconds maximum
Ramp-down Rate (T_P to T_L)	6°C/second maximum	6°C/second maximum
Time 25°C to Peak Temperature	6 minutes maximum	8 minutes maximum

Note: All temperatures refer to the center of the package, measured on the package body surface that is facing up during assembly reflow.

* For Case Size height > 2.5 mm

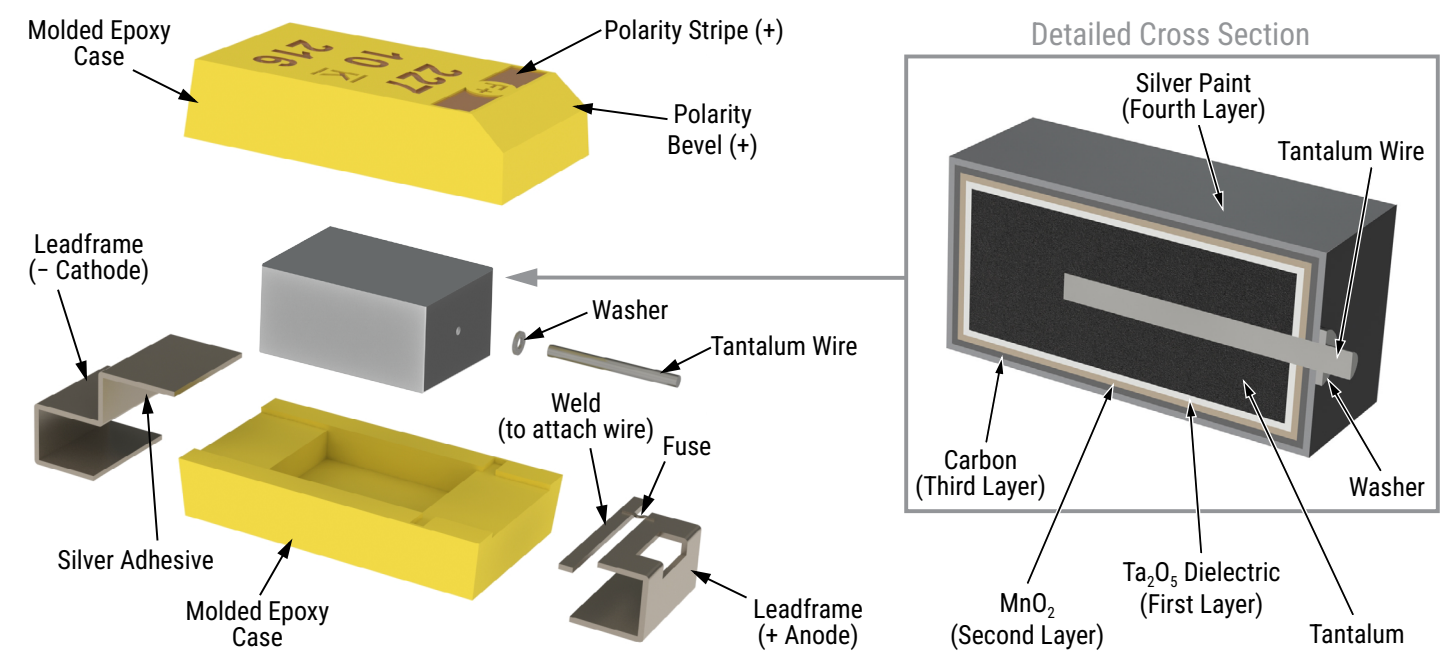
** For Case Size height ≤ 2.5 mm



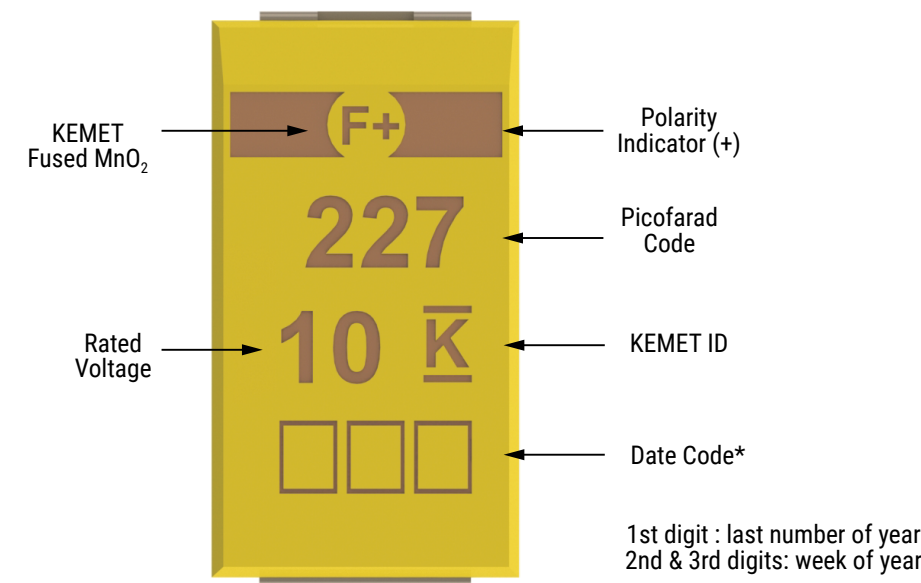
Storage

Tantalum chip capacitors should be stored in normal working environments. While the chips themselves are quite robust in other environments, solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage. In addition, packaging materials will be degraded by high temperature – reels may soften or warp and tape peel force may increase. KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 60% relative humidity. Temperature fluctuations should be minimized to avoid condensation on

Construction



Capacitor Marking



Tape & Reel Packaging Information

KEMET's molded chip capacitor families are packaged in 8 and 12 mm plastic tape on 7" and 13" reels in accordance with *EIA Standard 481: Embossed Carrier Taping of Surface Mount Components for Automatic Handling*. This packaging system is compatible with all tape-fed automatic pick-and-place systems.

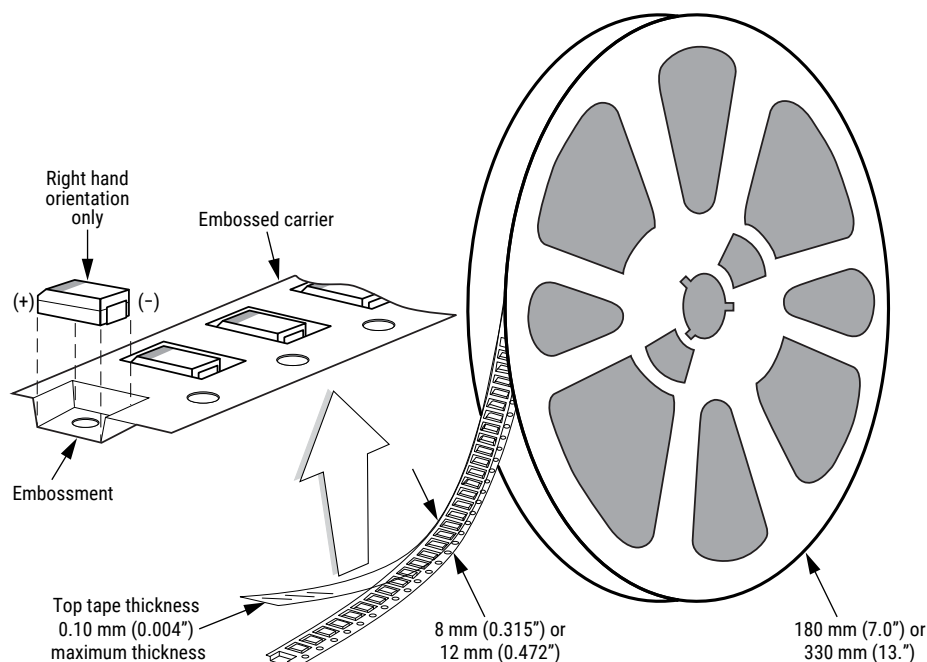


Table 3 – Packaging Quantity

Case Code		Tape Width (mm)	7" Reel*	13" Reel*
KEMET	EIA			
S	3216-12	8	2,500	10,000
T	3528-12	8	2,500	10,000
M	3528-15	8	2,500	8,000
U	6032-15	12	1,000	5,000
L	6032-19	12	1,000	3,000
W	7343-15	12	1,000	3,000
Z	7343-17	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
Q	7343-12	12	1,000	3,000
Y	7343-40	12	500	2,000
X	7343-43	12	500	2,000
E/T428P	7360-38	12	500	2,000
H	7360-20	12	1,000	2,500
O	7360-43	12	250	1,000

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

Figure 1 – Embossed (Plastic) Carrier Tape Dimensions

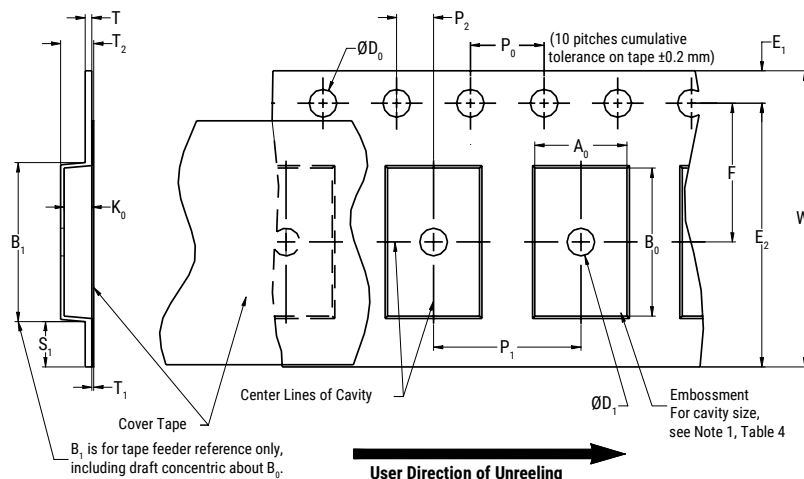


Table 4 – Embossed (Plastic) Carrier Tape Dimensions

Metric will govern

Constant Dimensions – Millimeters (Inches)									
Tape Size	D_0	D_1 Minimum Note 1	E_1	P_0	P_2	R Reference Note 2	S_1 Minimum Note 3	T Maximum	T_1 Maximum
8 mm	$1.5 \pm 0.10 / -0.0$ ($0.059 \pm 0.004 / -0.0$)	1.0 (0.039)	1.75 ± 0.10 (0.069 ± 0.004)	4.0 ± 0.10 (0.157 ± 0.004)	2.0 ± 0.05 (0.079 ± 0.002)	25.0 (0.984)	0.600 (0.024)	0.600 (0.024)	0.100 (0.004)
12 mm		1.5 (0.059)				30 (1.181)			

Variable Dimensions – Millimeters (Inches)								
Tape Size	Pitch	B_1 Maximum Note 4	E_2 Minimum	F	P_1	T_2 Maximum	W Maximum	A_0, B_0 & K_0
8 mm	Single (4 mm)	4.35 (0.171)	6.25 (0.246)	3.5 ± 0.05 (0.138 ± 0.002)	4.0 ± 0.10 (0.157 ± 0.004)	2.5 (0.098)	8.3 (0.327)	Note

Packaging Information Performance Notes

- 1. **Cover tape break force:** 1.0 kg minimum.
- 2. **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 to 1.0 newton (10 to 100 gf)
12 mm	0.1 to 1.3 newton (10 to 130 gf)

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.

3. **Labeling:** Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. *Refer to EIA Standards 556 and 624.*

Figure 2 – Maximum Component Rotation

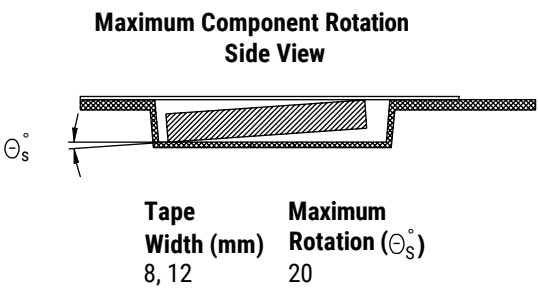
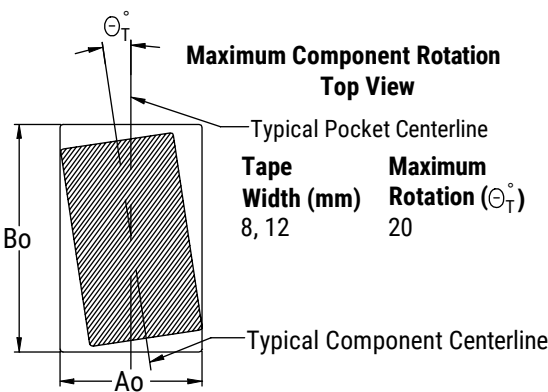


Figure 3 – Maximum Lateral Movement

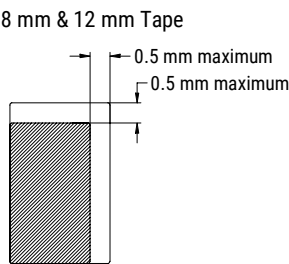


Figure 4 – Bending Radius

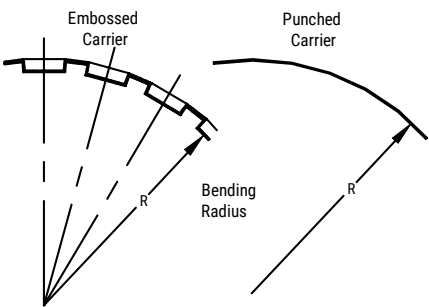
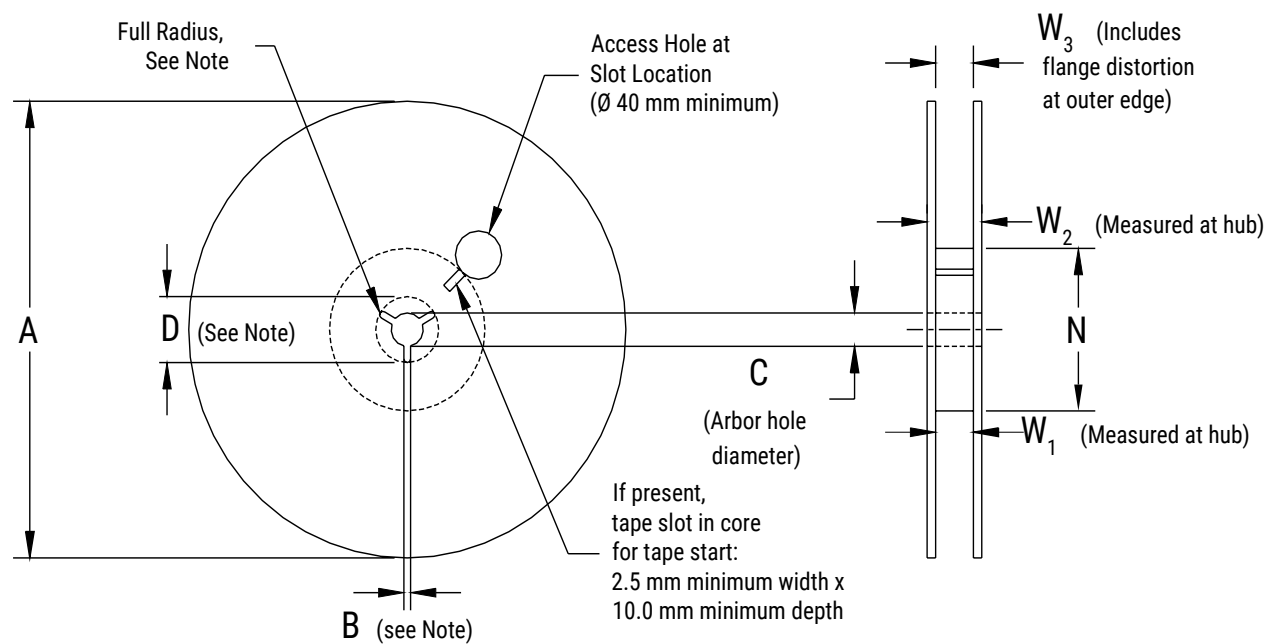


Figure 5 – Reel Dimensions



Note: Drive spokes optional; if used, dimensions B and D shall apply.

Table 5 – Reel Dimensions

Metric will govern

Figure 6 – Tape Leader & Trailer Dimensions

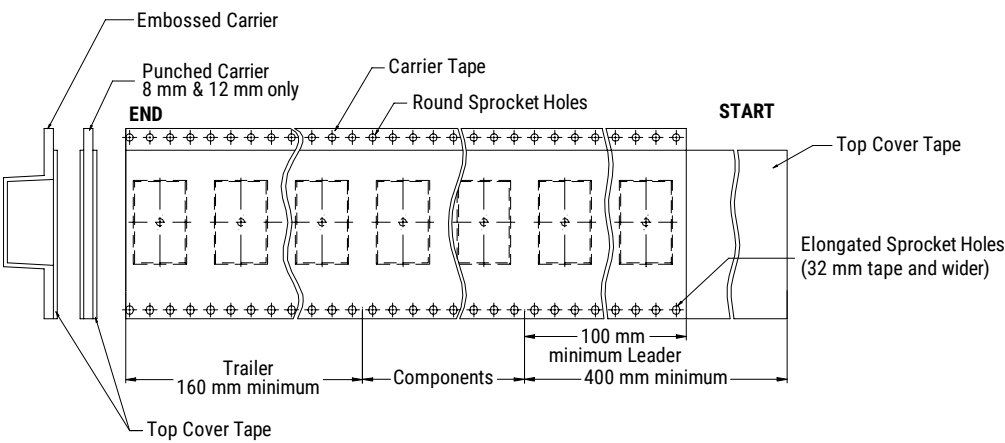
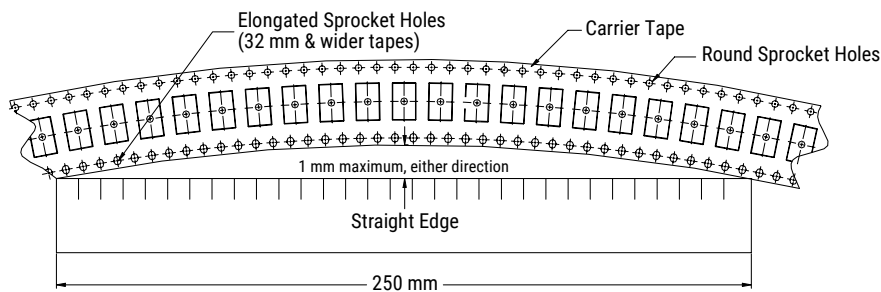


Figure 7 – Maximum Camber



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