

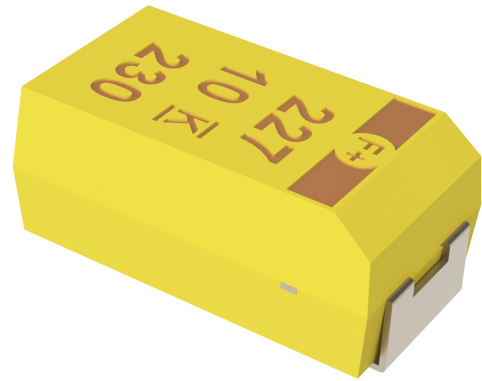
Overview

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 $\leq 30^{\circ}\text{C}/85\% \text{RH}$.

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 μF
- 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 $+125^{\circ}\text{C}$



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 (6/6) according to Directive 2002/95/EC when ordered with 100% Sn solder.

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		+25°C	-55°C	+85°C	+125°C	
		Δ C/C	IL*	±10%	±10%	±20%	
		DF	IL	IL	1.5 x IL	1.5 x IL	
		DCL	IL	N/A	10 x IL	12 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				

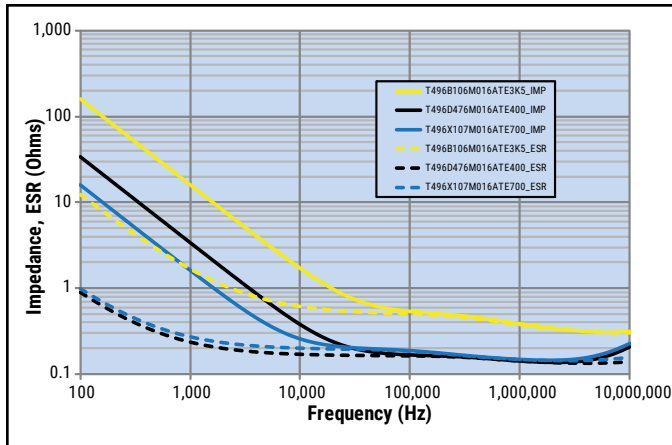
*IL = Initial limit

Certification

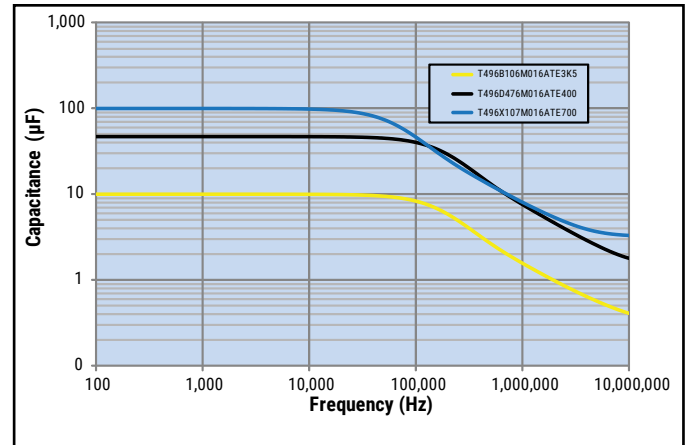
DLA Drawing 04053

Electrical Characteristics

ESR vs. Frequency



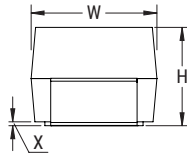
Capacitance vs. Frequency



Dimensions – Millimeters (Inches)

Metric will govern

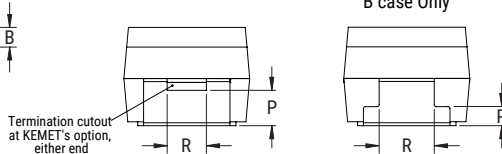
CATHODE (-) END VIEW



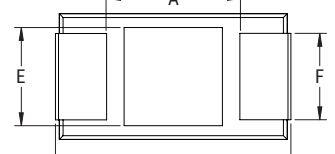
SIDE VIEW



ANODE (+)/CATHODE (-)
END VIEW
B case Only



BOTTOM VIEW



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)	0.10 ±0.10 (0.004 ±0.004)	0.9 (0.035)	1.0 (0.039)	0.13 (0.005)	3.8 (0.150)	3.5 (0.138)	3.5 (0.138)	446.84
X	7343-43	7.3 ±0.3 (0.287 ±0.012)	4.0 ±0.3 (0.169 ±0.012)	4.0 ±0.3 (0.157 ±0.012)	2.4 (0.094)	1.3 (0.051)	0.5 (0.020)	0.10 ±0.10 (0.004 ±0.004)	1.7 (0.067)	1.0 (0.039)	0.13 (0.005)	3.8 (0.150)	3.5 (0.138)	3.5 (0.138)	652.04

Notes: (Ref) – Dimensions provided for reference only.

These weights are provided as reference. If exact weights are needed, please contact your KEMET Sales Representative

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
							mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz		
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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	125	1
6.3	6.8	B/3528-21	T496B685(1)006A(2)E3K5	0.4	6.0	3500	156	140	62	125	1
6.3	10	B/3528-21	T496B106(1)006A(2)E3K5	0.6	6.0	3500	156	140	62	125	1
6.3	15	C/6032-28	T496C156(1)006A(2)E2K0	0.9	6.0	2000	235	212	94	125	1
6.3	22	B/3528-21	T496B226(1)006A(2)E3K5	1.4	6.0	3500	156	140	62	125	1
6.3	22	B/3528-21	T496B226(1)006A(2)E1K5	1.4	6.0	1500	238	214	95	125	1
6.3	22	C/6032-28	T496C226(1)006A(2)E2K0	1.4	6.0	2000	235	212	94	125	1
6.3	33	C/6032-28	T496C336(1)006A(2)E2K0	2.1	6.0	2000	235	212	94	125	1
6.3	33	C/6032-28	T496C336(1)006A(2)E600	2.1	6.0	600	428	385	171	125	1
6.3	47	C/6032-28	T496C476(1)006A(2)E1K6	3.0	6.0	1600	262	236	105	125	1
6.3	47	C/6032-28	T496C476(1)006A(2)E600	3.0	6.0	600	428	385	171	125	1
6.3	47	D/7343-31	T496D476(1)006A(2)E1K0	3.0	6.0	1000	387	348	155	125	1
6.3	68	C/6032-28	T496C686(1)006A(2)E1K2	4.3	6.0	1200	303	273	121	125	1
6.3	68	D/7343-31	T496D686(1)006A(2)E1K0	4.3	6.0	1000	387	348	155	125	1
6.3	100	X/7343-43	T496X107(1)006A(2)E900	6.3	8.0	900	428	385	171	125	1
6.3	100	X/7343-43	T496X107(1)006A(2)E300	6.3	8.0	300	742	668	297	125	1
6.3	100	D/7343-31	T496D107(1)006A(2)E800	6.3	8.0	800	433	390	173	125	1
6.3	100	D/7343-31	T496D107(1)006A(2)E400	6.3	8.0	400	612	551	245	125	1
6.3	100	C/6032-28	T496C107(1)006A(2)E400	6.3	8.0	400	524	472	210	125	1
6.3	150	X/7343-43	T496X157(1)006A(2)E300	9.5	8.0	300	742	668	297	125	1
6.3	150	D/7343-31	T496D157(1)006A(2)E700	9.5	8.0	700	463	417	185	125	1
6.3	150	D/7343-31	T496D157(1)006A(2)E300	9.5	8.0	300	707	636	283	125	1
6.3	220	X/7343-43	T496X227(1)006A(2)E700	13.9	8.0	700	486	437	194	125	1
6.3	220	X/7343-43	T496X227(1)006A(2)E300	13.9	8.0	300	742	668	297	125	1
6.3	220	D/7343-31	T496D227(1)006A(2)E700	13.9	8.0	700	463	417	185	125	1
6.3	220	D/7343-31	T496D227(1)006A(2)E300	13.9	8.0	300	707	636	283	125	1
6.3	330	X/7343-43	T496X337(1)006A(2)E500	20.8	8.0	500	574	517	230	125	1
6.3	330	X/7343-43	T496X337(1)006A(2)E300	20.8	8.0	300	742	668	297	125	1
10	3.3	B/3528-21	T496B335(1)010A(2)E3K5	0.3	6.0	3500	156	140	62	125	1
10	4.7	B/3528-21	T496B475(1)010A(2)E3K5	0.5	6.0	3500	156	140	62	125	1
10	6.8	B/3528-21	T496B685(1)010A(2)E3K5	0.7	6.0	3500	156	140	62	125	1
10	10	C/6032-28	T496C106(1)010A(2)E2K0	1.0	6.0	2000	235	212	94	125	1
10	15	B/3528-21	T496B156(1)010A(2)E3K5	1.5	6.0	3500	156	140	62	125	1
10	15	C/6032-28	T496C156(1)010A(2)E2K0	1.5	6.0	2000	235	212	94	125	1
10	15	C/6032-28	T496C156(1)010A(2)E600	1.5	6.0	600	428	385	171	125	1
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL

1) To complete KEMET part number, insert M for ± 20% or K for ± 10%. Designates Capacitance tolerance.

(2) To complete KEMET part number, insert T = 100% Matte Tin (Sn) Plated, H = Standard Solder coated (SnPb 5% Pb minimum). Designates Termination Finish.

Refer to Ordering Information for additional detail.

Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. Substitutions can include better than series.

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
							mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz		
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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
10	68	D/7343-31	T496D686(1)010A(2)E400	6.8	6.0	400	612	551	245	125	1
10	100	X/7343-43	T496X107(1)010A(2)E400	10.0	8.0	400	642	578	257	125	1
10	100	D/7343-31	T496D107(1)010A(2)E700	10.0	8.0	700	463	417	185	125	1
10	100	D/7343-31	T496D107(1)010A(2)E400	10.0	8.0	400	612	551	245	125	1
10	150	X/7343-43	T496X157(1)010A(2)E700	15.0	8.0	700	486	437	194	125	1
10	150	X/7343-43	T496X157(1)010A(2)E400	15.0	8.0	400	642	578	257	125	1
10	150	D/7343-31	T496D157(1)010A(2)E700	15.0	8.0	700	463	417	185	125	1
10	150	D/7343-31	T496D157(1)010A(2)E400	15.0	8.0	400	612	551	245	125	1
10	220	X/7343-43	T496X227(1)010A(2)E500	22.0	8.0	500	574	517	230	125	1
10	220	X/7343-43	T496X227(1)010A(2)E300	22.0	8.0	300	742	668	297	125	1
10	220	D/7343-31	T496D227(1)010A(2)E300	22.0	8.0	300	707	636	283	125	1
16	2.2	B/3528-21	T496B225(1)016A(2)E3K5	0.4	6.0	3500	156	140	62	125	1
16	3.3	B/3528-21	T496B335(1)016A(2)E3K5	0.5	6.0	3500	156	140	62	125	1
16	3.3	B/3528-21	T496B335(1)016A(2)E2K1	0.5	6.0	2100	201	181	80	125	1
16	4.7	B/3528-21	T496B475(1)016A(2)E3K5	0.8	6.0	3500	156	140	62	125	1
16	4.7	B/3528-21	T496B475(1)016A(2)E1K6	0.8	6.0	1600	230	207	92	125	1
16	6.8	C/6032-28	T496C685(1)016A(2)E2K0	1.1	6.0	2000	235	212	94	125	1
16	6.8	C/6032-28	T496C685(1)016A(2)E600	1.1	6.0	600	428	385	171	125	1
16	10	B/3528-21	T496B106(1)016A(2)E3K5	1.6	6.0	3500	156	140	62	125	1
16	10	C/6032-28	T496C106(1)016A(2)E2K0	1.6	6.0	2000	235	212	94	125	1
16	10	C/6032-28	T496C106(1)016A(2)E700	1.6	6.0	700	396	356	158	125	1
16	15	C/6032-28	T496C156(1)016A(2)E2K0	2.4	6.0	2000	235	212	94	125	1
16	15	C/6032-28	T496C156(1)016A(2)E600	2.4	6.0	600	428	385	171	125	1
16	22	D/7343-31	T496D226(1)016A(2)E1K0	3.5	6.0	1000	387	348	155	125	1
16	22	D/7343-31	T496D226(1)016A(2)E500	3.5	6.0	500	548	493	219	125	1
16	22	C/6032-28	T496C226(1)016A(2)E1K6	3.5	6.0	1600	262	236	105	125	1
16	22	C/6032-28	T496C226(1)016A(2)E1K0	3.5	6.0	1000	332	299	133	125	1
16	33	D/7343-31	T496D336(1)016A(2)E1K0	5.3	6.0	1000	387	348	155	125	1
16	33	D/7343-31	T496D336(1)016A(2)E400	5.3	6.0	400	612	551	245	125	1
16	47	X/7343-43	T496X476(1)016A(2)E900	7.5	6.0	900	428	385	171	125	1
16	47	X/7343-43	T496X476(1)016A(2)E400	7.5	6.0	400	642	578	257	125	1
16	47	D/7343-31	T496D476(1)016A(2)E800	7.5	6.0	800	433	390	173	125	1
16	47	D/7343-31	T496D476(1)016A(2)E400	7.5	6.0	400	612	551	245	125	1
16	68	D/7343-31	T496D686(1)016A(2)E400	10.9	8.0	400	612	551	245	125	1
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL

1) To complete KEMET part number, insert M for ± 20% or K for ± 10%. Designates Capacitance tolerance.

(2) To complete KEMET part number, insert T = 100% Matte Tin (Sn) Plated, H = Standard Solder coated (SnPb 5% Pb minimum). Designates Termination Finish.

Refer to Ordering Information for additional detail.

Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. Substitutions can include better than series.

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
							mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz		
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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	219	125	1
20	15	C/6032-28	T496C156(1)020A(2)E500	3.0	6.0	500	469	422	188	125	1
20	22	D/7343-31	T496D226(1)020A(2)E1K0	4.4	6.0	1000	387	348	155	125	1
20	22	D/7343-31	T496D226(1)020A(2)E500	4.4	6.0	500	548	493	219	125	1
20	33	X/7343-43	T496X336(1)020A(2)E900	6.6	6.0	900	428	385	171	125	1
20	33	X/7343-43	T496X336(1)020A(2)E400	6.6	6.0	400	642	578	257	125	1
20	33	D/7343-31	T496D336(1)020A(2)E400	6.6	6.0	400	612	551	245	125	1
20	47	X/7343-43	T496X476(1)020A(2)E300	9.4	6.0	300	742	668	297	125	1
20	47	D/7343-31	T496D476(1)020A(2)E300	9.4	6.0	300	707	636	283	125	1
25	0.68	B/3528-21	T496B684(1)025A(2)E6K5	0.2	4.0	6500	114	103	46	125	1
25	1	B/3528-21	T496B105(1)025A(2)E5K0	0.3	4.0	5000	130	117	52	125	1
25	1	B/3528-21	T496B105(1)025A(2)E3K5	0.3	4.0	3500	156	140	62	125	1
25	1.5	B/3528-21	T496B155(1)025A(2)E5K0	0.4	6.0	5000	130	117	52	125	1
25	1.5	B/3528-21	T496B155(1)025A(2)E1K6	0.4	6.0	1600	230	207	92	125	1
25	2.2	C/6032-28	T496C225(1)025A(2)E3K5	0.6	6.0	3500	177	159	71	125	1
25	3.3	C/6032-28	T496C335(1)025A(2)E2K5	0.8	6.0	2500	210	189	84	125	1
25	3.3	C/6032-28	T496C335(1)025A(2)E2K1	0.8	6.0	2100	229	206	92	125	1
25	4.7	B/3528-21	T496B475(1)025A(2)E4K0	1.2	6.0	4000	146	131	58	125	1
25	4.7	C/6032-28	T496C475(1)025A(2)E2K5	1.2	6.0	2500	210	189	84	125	1
25	4.7	C/6032-28	T496C475(1)025A(2)E1K3	1.2	6.0	1300	291	262	116	125	1
25	6.8	C/6032-28	T496C685(1)025A(2)E2K0	1.7	6.0	2000	235	212	94	125	1
25	6.8	C/6032-28	T496C685(1)025A(2)E600	1.7	6.0	600	428	385	171	125	1
25	10	C/6032-28	T496C106(1)025A(2)E600	2.5	6.0	600	428	385	171	125	1
25	10	D/7343-31	T496D106(1)025A(2)E1K2	2.5	6.0	1200	354	319	142	125	1
25	10	D/7343-31	T496D106(1)025A(2)E600	2.5	6.0	600	500	450	200	125	1
25	15	C/6032-28	T496C156(1)025A(2)E750	3.8	6.0	750	383	345	153	125	1
25	15	D/7343-31	T496D156(1)025A(2)E1K0	3.8	6.0	1000	387	348	155	125	1
25	15	D/7343-31	T496D156(1)025A(2)E500	3.8	6.0	500	548	493	219	125	1
25	22	X/7343-43	T496X226(1)025A(2)E900	5.5	6.0	900	428	385	171	125	1
25	22	X/7343-43	T496X226(1)025A(2)E400	5.5	6.0	400	642	578	257	125	1
25	22	D/7343-31	T496D226(1)025A(2)E800	5.5	6.0	800	433	390	173	125	1
25	22	D/7343-31	T496D226(1)025A(2)E400	5.5	6.0	400	612	551	245	125	1
35	0.47	B/3528-21	T496B474(1)035A(2)E8K0	0.2	4.0	8000	103	93	41	125	1
35	0.47	B/3528-21	T496B474(1)035A(2)E2K6	0.2	4.0	2600	181	163	72	125	1
35	0.68	B/3528-21	T496B684(1)035A(2)E6K5	0.2	4.0	6500	114	103	46	125	1
VDC at 85°C	µF	KEMET/EIA	(See below for part options)	µA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL

1) To complete KEMET part number, insert M for ± 20% or K for ± 10%. Designates Capacitance tolerance.

2) To complete KEMET part number, insert T = 100% Matte Tin (Sn) Plated, H = Standard Solder coated (SnPb 5% Pb minimum). Designates Termination Finish.

Refer to Ordering Information for additional detail.

Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. Substitutions can include better than series.

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
							mA at +25°C 100 kHz	mA at +85°C 100 kHz	mA at +125°C 100 kHz		
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°C 100 kHz Max				°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	179	125	1
35	10	X/7343-43	T496X106(1)035A(2)E1K0	3.5	6.0	1000	406	365	162	125	1
35	10	X/7343-43	T496X106(1)035A(2)E500	3.5	6.0	500	574	517	230	125	1
35	10	D/7343-31	T496D106(1)035A(2)E400	3.5	6.0	400	612	551	245	125	1
35	15	X/7343-43	T496X156(1)035A(2)E900	5.3	6.0	900	428	385	171	125	1
35	15	X/7343-43	T496X156(1)035A(2)E500	5.3	6.0	500	574	517	230	125	1
35	15	D/7343-31	T496D156(1)035A(2)E500	5.3	6.0	500	548	493	219	125	1
35	22	X/7343-43	T496X226(1)035A(2)E300	7.7	6.0	300	742	668	297	125	1
50	0.15	B/3528-21	T496B154(1)050A(2)E16K	0.1	4.0	16000	73	66	29	125	1
50	0.22	B/3528-21	T496B224(1)050A(2)E14K	0.1	4.0	14000	78	70	31	125	1
50	0.22	B/3528-21	T496B224(1)050A(2)E10K	0.1	4.0	10000	92	83	37	125	1
50	0.33	B/3528-21	T496B334(1)050A(2)E10K	0.2	4.0	10000	92	83	37	125	1
50	0.33	B/3528-21	T496B334(1)050A(2)E2K6	0.2	4.0	2600	181	163	72	125	1
50	0.47	C/6032-28	T496C474(1)050A(2)E8K0	0.2	4.0	8000	117	105	47	125	1
50	0.47	C/6032-28	T496C474(1)050A(2)E1K9	0.2	4.0	1900	241	217	96	125	1
50	0.68	C/6032-28	T496C684(1)050A(2)E7K0	0.3	4.0	7000	125	113	50	125	1
50	0.68	C/6032-28	T496C684(1)050A(2)E1K7	0.3	4.0	1700	254	229	102	125	1
50	1	C/6032-28	T496C105(1)050A(2)E5K5	0.5	4.0	5500	141	127	56	125	1
50	1	C/6032-28	T496C105(1)050A(2)E2K7	0.5	4.0	2700	202	182	81	125	1
50	1.5	C/6032-28	T496C155(1)050A(2)E5K0	0.8	6.0	5000	148	133	59	125	1
50	1.5	C/6032-28	T496C155(1)050A(2)E2K0	0.8	6.0	2000	235	212	94	125	1
50	2.2	D/7343-31	T496D225(1)050A(2)E2K5	1.1	6.0	2500	245	221	98	125	1
50	2.2	D/7343-31	T496D225(1)050A(2)E900	1.1	6.0	900	408	367	163	125	1
50	3.3	D/7343-31	T496D335(1)050A(2)E2K0	1.7	6.0	2000	274	247	110	125	1
50	3.3	D/7343-31	T496D335(1)050A(2)E1K0	1.7	6.0	1000	387	348	155	125	1
50	4.7	X/7343-43	T496X475(1)050A(2)E1K5	2.4	6.0	1500	332	299	133	125	1
50	4.7	X/7343-43	T496X475(1)050A(2)E400	2.4	6.0	400	642	578	257	125	1
50	4.7	D/7343-31	T496D475(1)050A(2)E400	2.4	6.0	400	612	551	245	125	1
VDC at 85°C	μF	KEMET/EIA	(See below for part options)	μA at +20°C Max/5 Min	% at +20°C 120 Hz % Max	mΩ at +20°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
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DC Leakage	DF	ESR	Maximum Allowable Ripple Current (rms)			Maximum Operating Temp	MSL

1) To complete KEMET part number, insert M for ± 20% or K for ± 10%. Designates Capacitance tolerance.

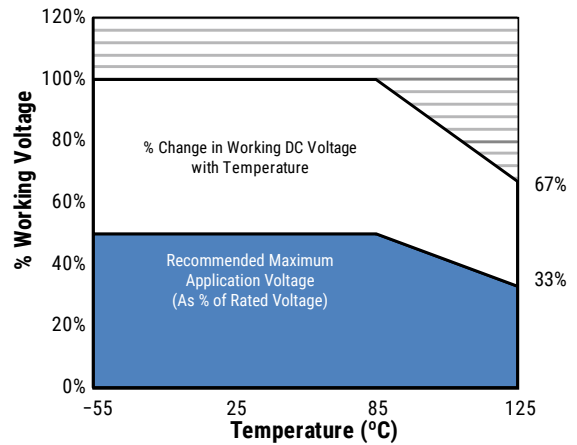
(2) To complete KEMET part number, insert T = 100% Matte Tin (Sn) Plated, H = Standard Solder coated (SnPb 5% Pb minimum). Designates Termination Finish.

Refer to Ordering Information for additional detail.

Higher voltage ratings and tighter tolerance product including ESR may be substituted within the same size at KEMET's option. Voltage substitution will be marked with the higher voltage rating. Substitutions can include better than series.

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 Multiplier

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

Using the P max of the device, the maximum allowable rms ripple current or voltage may be determined.

$$I(max) = \sqrt{P_{max}/R}$$

$$E(max) = Z \sqrt{P_{max}/R}$$

I = rms ripple current (amperes)

E = rms ripple voltage (volts)

P_{max} = maximum power dissipation (watts)

R = ESR at specified frequency (ohms)

Z = Impedance at specified frequency (ohms)

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)					
		Case	EIA	W	L	S	V1	V2	W	L	S	V1	V2	W	L	S	V1
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

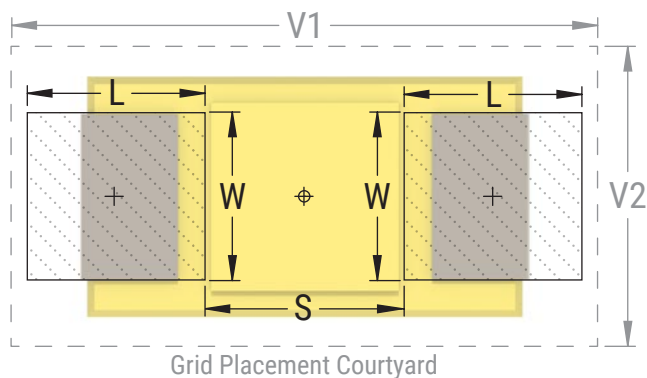
Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

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.

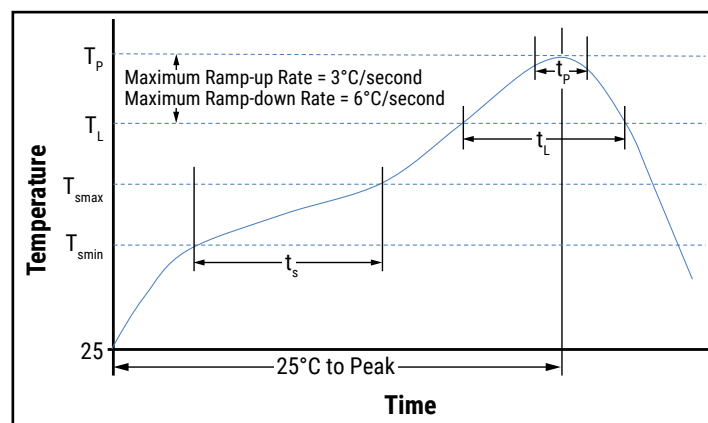
During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

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

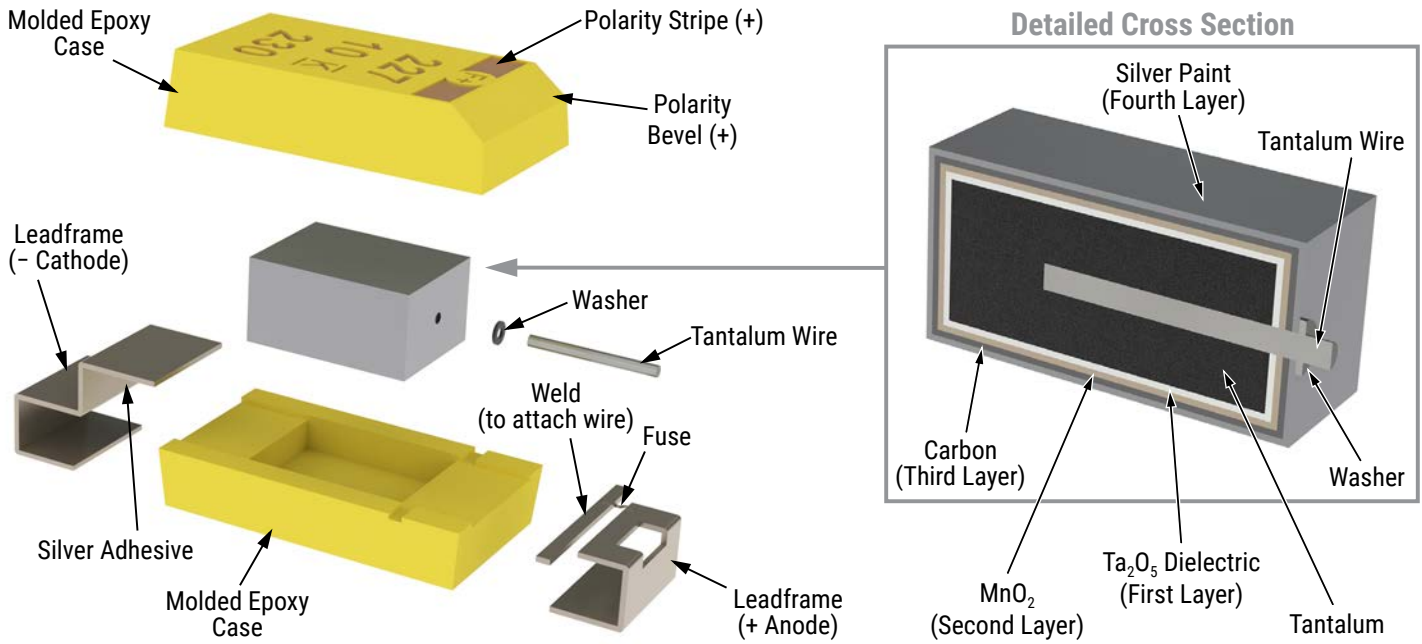
** For Case Size height ≤ 2.5 mm



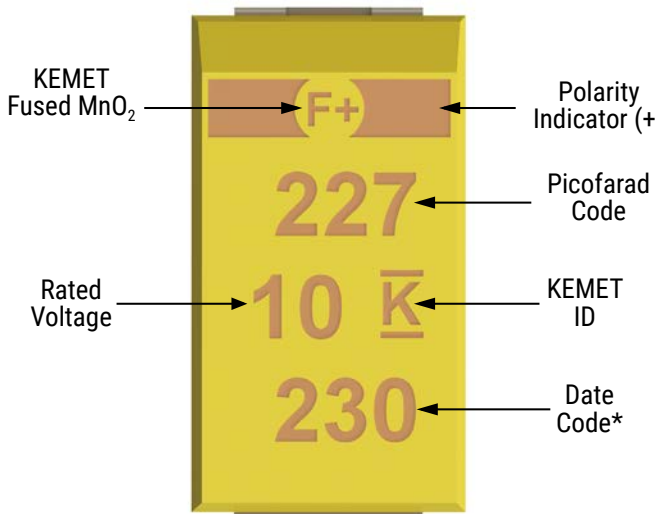
Storage

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 the parts and atmospheres should be free of chlorine and sulphur bearing compounds. For optimized solderability, chip stock should be used promptly, preferably within three years of receipt.

Construction



Capacitor Marking



* 230 = 30th week of 2012

Date Code *	
1 st digit = last number of year	2 = 2012 3 = 2013 4 = 2014 5 = 2015 6 = 2016 7 = 2017
2 nd and 3 rd digit = week of the year	01 = 1 st week of the year to 52 = 52 nd week of the year

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.

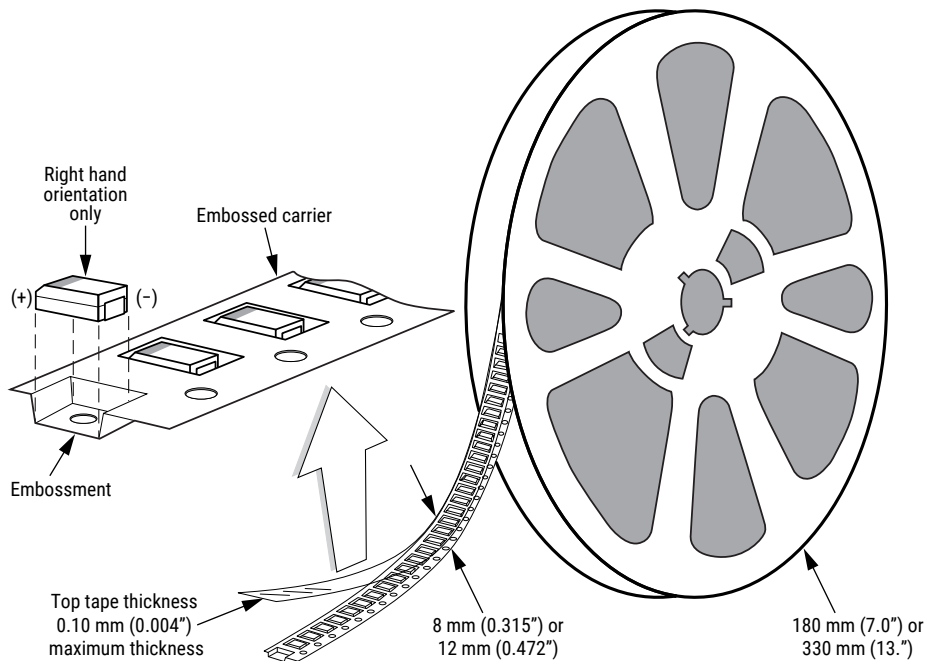


Table 3 – Packaging Quantity

Case Code		Tape Width (mm)	7" Reel*	13" Reel*
KEMET	EIA			
S	3216-12	8	2,500	10,000
T	3528-12	8	3,000	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

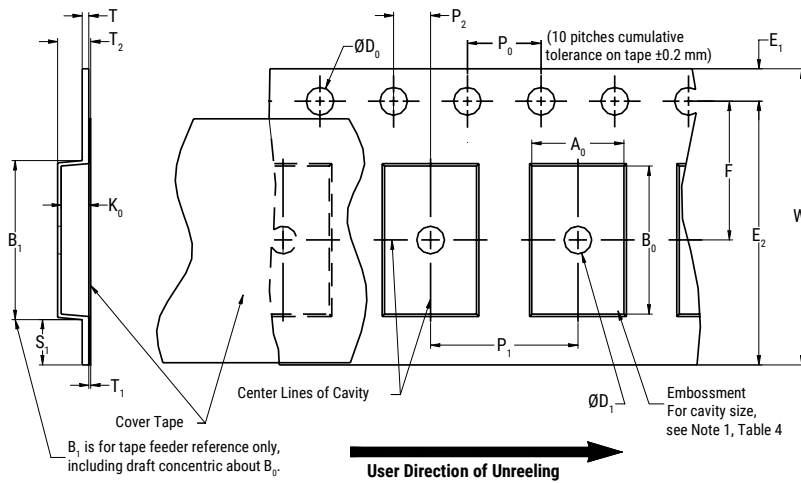


Table 4 – Embossed (Plastic) Carrier Tape Dimensions

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 +0.10/-0.0 (0.059 +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)							

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)	2.0 ±0.05 or 4.0 ±0.10 (0.079 ±0.002 or 0.157 ±0.004)	2.5 (0.098)	8.3 (0.327)	Note 5	
12 mm	Single (4 mm) and Double (8 mm)	8.2 (0.323)	10.25 (0.404)	5.5 ±0.05 (0.217 ±0.002)	2.0 ±0.05 (0.079 ±0.002) or 4.0 ±0.10 (0.157 ±0.004) or 8.0 ±0.10 (0.315 ±0.004)	4.6 (0.181)	12.3 (0.484)		

1. 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.
2. The tape, with or without components, shall pass around R without damage (see Figure 4).
3. If S₁ < 1.0 mm, there may not be enough area for cover tape to be properly applied (see EIA Standard 481-D, paragraph 4.3, section b).
4. B₁ dimension is a reference dimension for tape feeder clearance only.
5. The cavity defined by A₀, B₀ and K₀ shall surround the component with sufficient clearance that:
 - (a) the component does not protrude above the top surface of the carrier tape.
 - (b) the component can be removed from the cavity in a vertical direction without mechanical restriction, after the top cover tape has been removed.
 - (c) rotation of the component is limited to 20° maximum for 8 and 12 mm tapes (see Figure 2).
 - (d) lateral movement of the component is restricted to 0.5 mm maximum for 8 mm and 12 mm wide tape (see Figure 3).
 - (e) see Addendum in EIA Standard 481-D for standards relating to more precise taping requirements.

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 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.

- 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

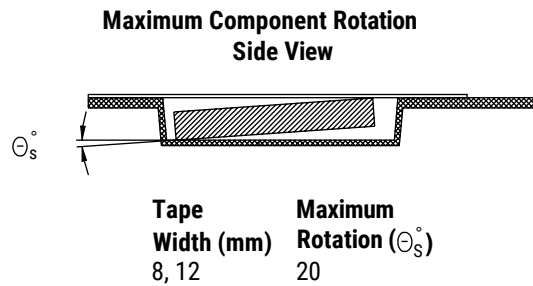
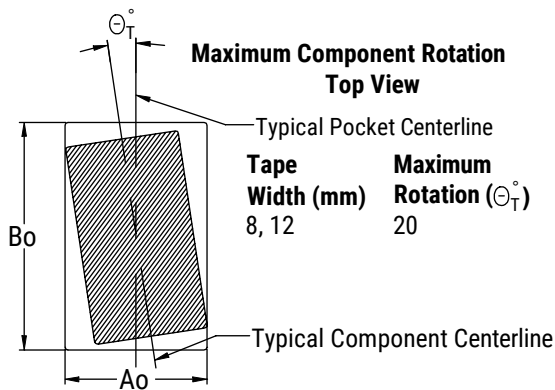


Figure 3 – Maximum Lateral Movement

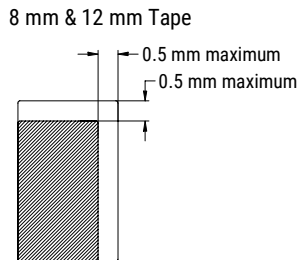


Figure 4 – Bending Radius

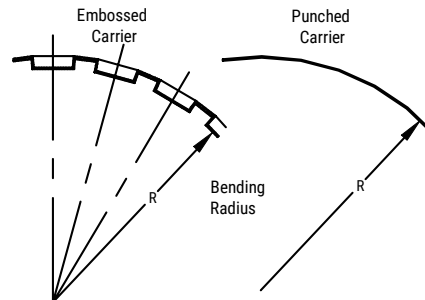


Figure 5 – Reel Dimensions



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

Table 5 – Reel Dimensions

Metric will govern

Constant Dimensions – Millimeters (Inches)				
Tape Size	A	B Minimum	C	D Minimum
8 mm	178 ±0.20 (7.008 ±0.008)	1.5 (0.059)	13.0 +0.5/-0.2 (0.521 +0.02/-0.008)	20.2 (0.795)
12 mm	330 ±0.20 (13.000 ±0.008)			
Variable Dimensions – Millimeters (Inches)				
Tape Size	N Minimum	W ₁	W ₂ Maximum	W ₃
8 mm	50 (1.969)	8.4 +1.5/-0.0 (0.331 +0.059/-0.0)	14.4 (0.567)	Shall accommodate tape width without interference
12 mm		12.4 +2.0/-0.0 (0.488 +0.078/-0.0)	18.4 (0.724)	

Figure 6 – Tape Leader & Trailer Dimensions

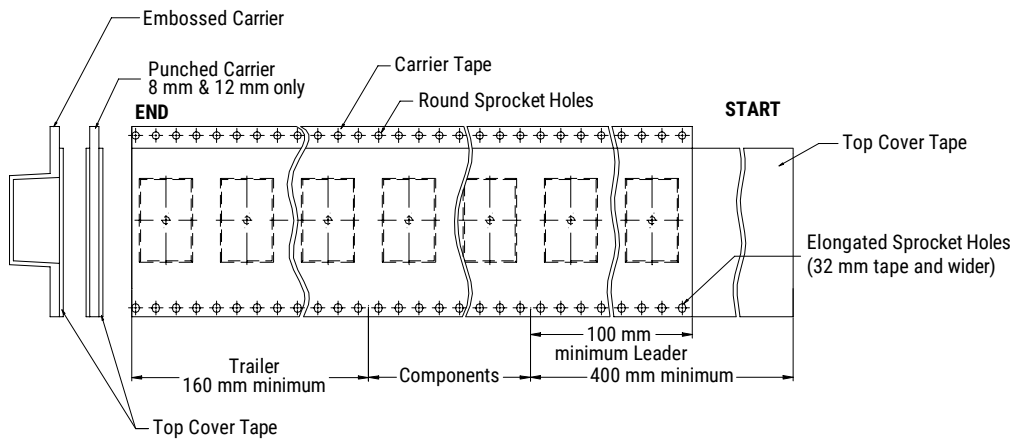


Figure 7 – Maximum Camber



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