

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
4	680	X/7343-43	T541X687M004AH(1)10	04052-023(2)		272	10	10	5,196	125
4	680	X/7343-43	T541X687(5)004(3)(6)(1)10	N/A		272	10	10	5,196	125
4	680	X/7343-43	T541X687(5)004(3)(6)(7)05	N/A	•	272	10	12	4,743	125
4	1000	X/7343-43	T541X108M004AH(1)20	04052-024(2)		400	10	6	6,708	125
4	1000	X/7343-43	T541X108(5)004(3)(6)(1)20	N/A		400	10	6	6,708	125
4	1000	X/7343-43	T541X108M004AH(1)10	04052-048(2)		400	10	10	5,196	125
4	1000	X/7343-43	T541X108(5)004(3)(6)(1)10	N/A		400	10	10	5,196	125
4	1000	X/7343-43	T541X108(5)004(3)(6)(7)05	N/A	•	400	10	12	4,743	125
4	1500	O/7360-43	T541O158M004(3)(6)(1)10	N/A		600	10	10	5,480	125
6.3	33	B/3528-21	T540B336M006AH(1)10	04051-017(2)		21	8	80	1,260	125
6.3	33	B/3528-21	T540B336(5)006(3)(6)(1)10	N/A		21	8	80	1,260	125
6.3	33	B/3528-21	T540B336(5)006(3)H(7)10	N/A	•	21	8	80	1,260	125
6.3	47	B/3528-21	T540B476M006AH(1)10	04051-019(2)		30	8	80	1,260	125
6.3	47	B/3528-21	T540B476(5)006(3)(6)(1)10	N/A		30	8	80	1,260	125
6.3	47	B/3528-21	T540B476(5)006(3)H(7)10	N/A	•	30	8	80	1,260	125
6.3	68	B/3528-21	T540B686M006AH(1)10	04051-020(2)		43	8	80	1,260	125
6.3	68	B/3528-21	T540B686(5)006(3)(6)(1)10	N/A		43	8	80	1,260	125
6.3	68	B/3528-21	T540B686(5)006(3)H(7)10	N/A	•	43	8	80	1,260	125
6.3	150	D/7343-31	T540D157M006AH(1)10	04051-021(2)		95	10	25	3,000	125
6.3	150	D/7343-31	T540D157(5)006(3)(6)(1)10	N/A		95	10	25	3,000	125
6.3	150	D/7343-31	T540D157(5)006(3)H(7)05	N/A	•	95	10	40	2,372	125
6.3	220	D/7343-31	T540D227M006AH(1)10	04051-022(2)		139	10	25	3,000	125
6.3	220	D/7343-31	T540D227(5)006(3)(6)(1)10	N/A		139	10	25	3,000	125
6.3	220	D/7343-31	T540D227(5)006(3)H(7)05	N/A	•	139	10	40	2,372	125
6.3	220	D/7343-31	T541D227M006AH(1)20	04052-026(2)		139	10	6	6,519	125
6.3	220	D/7343-31	T541D227(5)006(3)(6)(1)20	N/A		139	10	6	6,519	125
6.3	220	D/7343-31	T541D227M006AH(1)10	04052-049(2)		139	10	10	5,050	125
6.3	220	D/7343-31	T541D227(5)006(3)(6)(1)10	N/A		139	10	10	5,050	125
6.3	330	D/7343-31	T540D337M006AH(1)20	04051-023(2)		208	10	25	3,000	125
6.3	330	D/7343-31	T540D337(5)006(3)(6)(1)20	N/A		208	10	25	3,000	125
6.3	330	D/7343-31	T540D337M006AH(1)10	04051-024(2)		208	10	40	2,372	125
6.3	330	D/7343-31	T540D337(5)006(3)(6)(1)10	N/A		208	10	40	2,372	125
6.3	330	D/7343-31	T540D337(5)006(3)H(7)10	N/A	•	208	10	40	2,372	125
6.3	330	D/7343-31	T541D337M006AH(1)10	04052-027(2)		208	10	10	5,050	125
6.3	330	D/7343-31	T541D337(5)006(3)(6)(1)10	N/A		208	10	10	5,050	125
6.3	330	Y/7343-40	T541Y337M006AH(1)30	04052-028(2)		208	10	5	7,253	125
6.3	330	Y/7343-40	T541Y337(5)006(3)(6)(1)30	N/A		208	10	5	7,253	125
6.3	330	Y/7343-40	T541Y337M006AH(1)20	04052-029(2)		208	10	6	6,621	125
6.3	330	Y/7343-40	T541Y337(5)006(3)(6)(1)20	N/A		208	10	6	6,621	125
6.3	330	Y/7343-40	T541Y337M006AH(1)10	04052-030(2)		208	10	10	5,128	125
6.3	330	Y/7343-40	T541Y337(5)006(3)(6)(1)10	N/A		208	10	10	5,128	125
6.3	470	X/7343-43	T541X477M006AH(1)30	04052-031(2)		296	10	5	7,348	125
6.3	470	X/7343-43	T541X477(5)006(3)(6)(1)30	N/A		296	10	5	7,348	125
6.3	470	X/7343-43	T541X477M006AH(1)20	04052-032(2)		296	10	6	6,708	125
6.3	470	X/7343-43	T541X477(5)006(3)(6)(1)20	N/A		296	10	6	6,708	125
6.3	470	X/7343-43	T541X477M006AH(1)10	04052-033(2)		296	10	10	5,196	125
6.3	470	X/7343-43	T541X477(5)006(3)(6)(1)10	N/A		296	10	10	5,196	125
6.3	470	X/7343-43	T541X477(5)006(3)(6)(7)05	N/A	•	296	10	12	4,743	125
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.

(1) To complete KEMET part number, insert 65 = 4 cycles +25°C, 66 = 10 cycles +25°C, 67 = 10 cycles -55°C and +85°C, Designates surge current option.

(2) To complete DLA part number, insert Blank = None, A = 10 cycles +25°C ±5°C After Voltage Aging, B = 10 cycles -55°C and +85°C ±5°C After Voltage Aging.

(3) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours, C = 0.01%/1,000 hours, D=0.001%/1,000 hours. Designates Reliability Level.

(4) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours or C = 0.01%/1,000 hours. Designates Reliability Level.

(5) To complete KEMET part number, insert M for ±20% or K for ±10%. Designates capacitance tolerance.

(6) To complete KEMET part number insert, H = Solder Plated, T = 100% Tin (Sn). Designates termination finish.

(7) To complete KEMET part number, insert 85 = 4 cycles at 25°C ±5°C ** + improved humidity capability, 86 = 10 cycles at 25°C ±5°C*** + improved humidity capability,

87= 10 cycles at -55°C +0°C/-5°C and +85°C ±5°C*** + improved humidity capability. Designates surge current option on improved humidity capability.

Part Numbers marked in blue font are "Under Development." Engineering samples available upon request.

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
6.3	680	X/7343-43	T541X687(5)006A(6)(7)10	N/A	•	428	10	15	4,243	125
6.3	1000	O/7360-43	T541O108M006(3)(6)(1)10	N/A		630	10	12	5,000	125
10	22	A/3216-18	T540A226M010(4)(6)(1)10	N/A		22	8	80	1,183	125
10	22	B/3528-21	T540B226M010AH(1)10	04051-025(2)		22	8	80	1,260	125
10	22	B/3528-21	T540B226(5)010(3)(6)(1)10	N/A		22	8	80	1,260	125
10	22	B/3528-21	T540B226(5)010(3)(6)(7)10	N/A	•	22	8	80	1,260	125
10	33	B/3528-21	T540B336M010AH(1)10	04051-027(2)		33	8	80	1,260	125
10	33	B/3528-21	T540B336(5)010(3)(6)(1)10	N/A		33	8	80	1,260	125
10	33	B/3528-21	T540B336(5)010(3)(6)(7)10	N/A	•	33	8	80	1,260	125
10	47	B/3528-21	T540B476M010(4)(6)(1)20	N/A		47	8	35	1,905	125
10	47	B/3528-21	T540B476M010(4)(6)(1)10	N/A		47	8	100	1,127	125
10	100	D/7343-31	T540D107M010AH(1)20	04051-028(2)		100	10	25	3,000	125
10	100	D/7343-31	T540D107(5)010(3)(6)(1)20	N/A		100	10	25	3,000	125
10	100	D/7343-31	T540D107M010AH(1)10	04051-029(2)		100	10	55	2,023	125
10	100	D/7343-31	T540D107(5)010(3)(6)(1)10	N/A		100	10	55	2,023	125
10	100	D/7343-31	T540D107(5)010(3)(6)(7)10	N/A	•	100	10	55	2,023	125
10	150	D/7343-31	T540D157M010AH(1)20	04051-030(2)		150	10	25	3,000	125
10	150	D/7343-31	T540D157(5)010(3)(6)(1)20	N/A		150	10	25	3,000	125
10	150	D/7343-31	T540D157M010AH(1)10	04051-031(2)		150	10	55	2,023	125
10	150	D/7343-31	T540D157(5)010(3)(6)(1)10	N/A		150	10	55	2,023	125
10	150	D/7343-31	T540D157(5)010(3)(6)(7)10	N/A	•	150	10	55	2,023	125
10	150	D/7343-31	T541D157M010AH(1)20	04052-035(2)		150	10	6	6,519	125
10	150	D/7343-31	T541D157(5)010(3)(6)(1)20	N/A		150	10	6	6,519	125
10	150	D/7343-31	T541D157M010AH(1)10	04052-050(2)		150	10	10	5,050	125
10	150	D/7343-31	T541D157(5)010(3)(6)(1)10	N/A		150	10	10	5,050	125
10	220	D/7343-31	T540D227M010AH(1)10	04051-032(2)		220	10	25	3,000	125
10	220	D/7343-31	T540D227(5)010(3)(6)(1)10	N/A		220	10	25	3,000	125
10	220	D/7343-31	T540D227(5)010(3)(6)(7)05	N/A	•	220	10	35	3,000	125
10	220	D/7343-31	T541D227M010AH(1)20	04052-036(2)		220	10	6	6,519	125
10	220	D/7343-31	T541D227(5)010(3)(6)(1)20	N/A		220	10	6	6,519	125
10	220	D/7343-31	T541D227M010AH(1)10	04052-037(2)		220	10	10	5,050	125
10	220	D/7343-31	T541D227(5)010(3)(6)(1)10	N/A		220	10	10	5,050	125
10	220	Y/7343-40	T541Y227M010AH(1)20	04052-038(2)		220	10	6	6,621	125
10	220	Y/7343-40	T541Y227(5)010(3)(6)(1)20	N/A		220	10	6	6,621	125
10	220	Y/7343-40	T541Y227M010AH(1)10	04052-051(2)		220	10	10	5,128	125
10	220	Y/7343-40	T541Y227(5)010(3)(6)(1)10	N/A		220	10	10	5,128	125
10	330	X/7343-43	T541X337M010AH(1)30	04052-039(2)		330	10	5	7,348	125
10	330	X/7343-43	T541X337(5)010(4)(6)(1)30	N/A		330	10	5	7,348	125
10	330	X/7343-43	T541X337M010AH(1)20	04052-040(2)		330	10	6	6,708	125
10	330	X/7343-43	T541X337(5)010(4)(6)(1)20	N/A		330	10	6	6,708	125
10	330	X/7343-43	T541X337M010AH(1)10	04052-041(2)		330	10	10	5,196	125
10	330	X/7343-43	T541X337(5)010(3)(6)(1)10	N/A		330	10	10	5,196	125
10	330	X/7343-43	T541X337(5)010(4)(6)(7)05	N/A	•	330	10	15	4,243	125
10	470	X/7343-43	T541X477(5)010(3)(6)(7)10	N/A	•	470	10	20	3,674	125
10	680	O/7360-43	T541O687M010(3)(6)(1)10	N/A		680	10	15	4,470	125
16	47	D/7343-31	T540D476M016AH(1)20	04051-033(2)		76	10	35	2,535	125
16	47	D/7343-31	T540D476(5)016(3)(6)(1)20	N/A		76	10	35	2,535	125
16	47	D/7343-31	T540D476M016AH(1)10	04051-034(2)		76	10	65	1,861	125
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.

(1) To complete KEMET part number, insert 65 = 4 cycles +25°C, 66 = 10 cycles +25°C, 67 = 10 cycles -55°C and +85°C, Designates surge current option.

(2) To complete DLA part number, insert Blank = None, A = 10 cycles +25°C ±5°C After Voltage Aging, B = 10 cycles -55°C and +85°C ±5°C After Voltage Aging.

(3) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours, C = 0.01%/1,000 hours, D=0.001%/1,000 hours. Designates Reliability Level.

(4) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours or C = 0.01%/1,000 hours. Designates Reliability Level.

(5) To complete KEMET part number, insert M for ±20% or K for ±10%. Designates capacitance tolerance.

(6) To complete KEMET part number insert, H = Solder Plated, T = 100% Tin (Sn). Designates termination finish.

(7) To complete KEMET part number, insert 85 = 4 cycles at 25°C ±5°C *** + improved humidity capability, 86 = 10 cycles at 25°C ±5°C*** + improved humidity capability,

87= 10 cycles at -55°C +0°C/-5°C and +85°C ±5°C*** + improved humidity capability. Designates surge current option on improved humidity capability.

Part Numbers marked in blue font are "Under Development." Engineering samples available upon request.

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
16	47	D/7343-31	T540D476(5)016(3)(6)(1)10	N/A		76	10	65	1,861	125
16	47	D/7343-31	T540D476(5)016(3)(6)(7)10	N/A	•	76	10	65	1,861	125
16	68	D/7343-31	T540D686M016AH(1)10	04051-035(2)		109	10	75	1,732	125
16	68	D/7343-31	T540D686(5)016(3)(6)(1)10	N/A		109	10	75	1,732	125
16	68	D/7343-31	T540D686(5)016(3)(6)(7)10	N/A	•	109	10	75	1,732	125
16	100	D/7343-31	T540D107M016AH(1)10	04051-036(2)		160	10	50	2,121	125
16	100	D/7343-31	T540D107(5)016(3)(6)(1)10	N/A		160	10	50	2,121	125
16	100	D/7343-31	T540D107(5)016(3)(6)(7)05	N/A	•	160	10	75	2,121	125
16	150	X/7343-43	T541X157M016AH(1)20	04052-052(2)		240	10	25	3,286	125
16	150	X/7343-43	T541X157(5)016(3)(6)(1)20	N/A		240	10	25	3,286	125
16	150	X/7343-43	T541X157M016AH(1)10	04052-053(2)		240	10	40	2,598	125
16	150	X/7343-43	T541X157(5)016(3)(6)(7)10	N/A	•	240	10	40	2,598	125
16	220	X/7343-43	T541X227M016AH(1)20	04052-054(2)		352	10	25	3,286	125
16	220	X/7343-43	T541X227(5)016(3)(6)(1)20	N/A		352	10	25	3,286	125
16	220	X/7343-43	T541X227M016AH(1)10	04052-055(2)		352	10	40	2,598	125
16	220	X/7343-43	T541X227(5)016(3)(6)(7)10	N/A	•	352	10	40	2,598	125
16	330	X/7343-43	T541X337M016AH(1)20	04052-056(2)		528	10	25	3,286	125
16	330	X/7343-43	T541X337(5)016(3)(6)(7)20	N/A	•	528	10	25	3,286	125
16	330	X/7343-43	T541X337M016AH(1)10	04052-057(2)		528	10	50	2,324	125
16	330	X/7343-43	T541X337(5)016(3)(6)(7)10	N/A	•	528	10	50	2,324	125
16	470	O/7360-43	T541O477M016(3)(6)(1)20	N/A		752	10	20	3,870	125
16	470	O/7360-43	T541O477M016(3)(6)(1)10	N/A		752	10	40	2,740	125
20	22	D/7343-31	T540D226M020AH(1)10	04051-037(2)		44	10	75	1,732	125
20	22	D/7343-31	T540D226(5)020(3)(6)(1)10	N/A		44	10	75	1,732	125
20	22	D/7343-31	T540D226(5)020(3)(6)(7)05	N/A	•	44	10	100	1,500	125
20	33	D/7343-31	T540D336M020AH(1)10	04051-038(2)		66	10	75	1,732	125
20	33	D/7343-31	T540D336(5)020(3)(6)(1)10	N/A		66	10	75	1,732	125
20	33	D/7343-31	T540D336(5)020(3)(6)(7)05	N/A	•	66	10	100	1,500	125
20	47	D/7343-31	T540D476M020AH(1)10	04051-039(2)		94	10	75	1,732	125
20	47	D/7343-31	T540D476(5)020(3)(6)(1)10	N/A		94	10	75	1,732	125
20	47	D/7343-31	T540D476(5)020(3)(6)(7)05	N/A	•	94	10	100	1,500	125
20	100	X/7343-43	T541X107M020AH(1)10	04052-058(2)		200	10	50	2,324	125
20	100	X/7343-43	T541X107(5)020A(6)(7)20	N/A	•	200	10	30	2,870	125
20	100	X/7343-43	T541X107(5)020(3)(6)(7)10	N/A	•	200	10	50	2,324	125
25	6.8	C/6032-28	T540C685(5)025(3)(6)(1)10	N/A		17	10	150	1,049	125
25	10	C/6032-28	T540C106(5)025(3)(6)(1)10	N/A		25	10	150	1,049	125
25	15	D/7343-31	T540D156M025AH(1)20	04051-040(2)		38	10	75	1,732	125
25	15	D/7343-31	T540D156(5)025(3)(6)(1)20	N/A		38	10	75	1,732	125
25	15	D/7343-31	T540D156M025AH(1)10	04051-041(2)		38	10	100	1,500	125
25	15	D/7343-31	T540D156(5)025(3)(6)(7)10	N/A	•	38	10	100	1,500	125
25	22	D/7343-31	T540D226M025AH(1)10	04051-042(2)		55	10	75	1,732	125
25	22	D/7343-31	T540D226(5)025(3)(6)(1)10	N/A		55	10	75	1,732	125
25	22	D/7343-31	T540D226(5)025(3)(6)(7)05	N/A	•	55	10	100	1,500	125
25	33	D/7343-31	T540D336M025AH(1)10	04051-043(2)		83	10	75	1,732	125
25	33	D/7343-31	T540D336(5)025(3)(6)(1)10	N/A		83	10	75	1,732	125
25	33	D/7343-31	T540D336(5)025(3)(6)(7)05	N/A	•	83	10	100	1,500	125
25	68	X/7343-43	T541X686M025AH(1)10	04052-059(2)		170	10	50	2,324	125
25	68	X/7343-43	T541X686(5)025(3)(6)(1)10	N/A		170	10	50	2,324	125
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.

(1) To complete KEMET part number, insert 65 = 4 cycles +25°C, 66 = 10 cycles +25°C, 67 = 10 cycles -55°C and +85°C, Designates surge current option.

(2) To complete DLA part number, insert Blank = None, A = 10 cycles +25°C ±5°C After Voltage Aging, B = 10 cycles -55°C and +85°C ±5°C After Voltage Aging.

(3) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours, C = 0.01%/1,000 hours, D=0.001%/1,000 hours. Designates Reliability Level.

(4) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours or C = 0.01%/1,000 hours. Designates Reliability Level.

(5) To complete KEMET part number, insert M for ±20% or K for ±10%. Designates capacitance tolerance.

(6) To complete KEMET part number insert, H = Solder Plated, T = 100% Tin (Sn). Designates termination finish.

(7) To complete KEMET part number, insert 85 = 4 cycles at 25°C ±5°C ** + improved humidity capability, 86 = 10 cycles at 25°C ±5°C*** + improved humidity capability,

87= 10 cycles at -55°C +0°C/-5°C and +85°C ±5°C*** + improved humidity capability. Designates surge current option on improved humidity capability.

Part Numbers marked in blue font are "Under Development." Engineering samples available upon request.

Table 1 – Ratings & Part Number Reference cont.

Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
25	68	X/7343-43	T541X686(5)025(3)(6)(7)10	N/A	•	170	10	50	2,324	125
25	100	X/7343-43	T541X107M025AH(1)10	04052-060(2)	•	250	10	60	2,121	125
25	100	X/7343-43	T541X107(5)025(3)(6)(7)10	N/A	•	250	10	60	2,121	125
25	100	X/7343-43	T541X107(5)025(3)(6)(1)20	N/A	•	250	10	35	2,777	125
25	150	O/7360-43	T541O157M025(3)(6)(1)10	N/A	•	375	10	45	2,580	125
30	22	D/7343-31	T540D226(5)030(3)(6)(1)10	N/A	•	66	10	75	1,732	125
30	22	D/7343-31	T540D226(5)030(3)(6)(7)05	N/A	•	66	10	100	1,500	125
30	33	D/7343-31	T540D336(5)030(3)(6)(7)10	N/A	•	99	10	100	1,500	125
30	47	X/7343-43	T541X476(5)030(3)(6)(7)10	N/A	•	141	10	50	2,324	125
30	68	X/7343-43	T541X686(5)030(3)(6)(7)10	N/A	•	204	10	50	2,324	125
30	68	X/7343-43	T541X686(5)030(3)(6)(7)20	N/A	•	204	10	35	2,777	125
30	100	X/7343-43	T541X107(5)030(3)(6)(7)10	N/A	•	300	10	70	1,878	125
30	100	X/7343-43	T541X107(5)030(3)(6)(7)20	N/A	•	300	10	35	2,777	125
30	150	O/7360-43	T541O157M030(3)(6)(1)20	N/A	•	450	10	30	3,160	125
30	150	O/7360-43	T541O157M030(3)(6)(1)10	N/A	•	450	10	55	2,340	125
35	15	D/7343-31	T540D156M035AH(1)20	04051-044(2)	•	53	10	75	1,732	125
35	15	D/7343-31	T540D156(5)035(4)(6)(1)20	N/A	•	53	10	75	1,732	125
35	15	D/7343-31	T540D156M035AH(1)10	04051-045(2)	•	53	10	100	1,500	125
35	15	D/7343-31	T540D156(5)035(4)(6)(7)10	N/A	•	53	10	100	1,500	125
35	33	X/7343-43	T541X336M035AH(1)10	04052-061(2)	•	116	10	60	2,121	125
35	33	X/7343-43	T541X336(5)035(4)(6)(7)10	N/A	•	116	10	60	2,121	125
35	47	X/7343-43	T541X476M035AH(1)10	04052-062(2)	•	165	10	60	2,121	125
35	47	X/7343-43	T541X476(5)035(4)(6)(7)10	N/A	•	165	10	60	2,121	125
35	68	O/7360-43	T541O686M035(4)(6)(1)10	N/A	•	238	10	45	2,580	125
50	10	D/7343-31	T540D106M050AH(1)20	04051-046(2)	•	50	10	100	1,500	125
50	10	D/7343-31	T540D106(5)050(4)(6)(1)20	N/A	•	50	10	100	1,500	125
50	10	D/7343-31	T540D106M050AH(1)10	04051-047(2)	•	50	10	125	1,342	125
50	10	D/7343-31	T540D106(5)050(4)(6)(7)10	N/A	•	50	10	125	1,342	125
50	22	X/7343-43	T541X226M050AH(1)10	04052-063(2)	•	110	10	75	1,897	125
50	22	X/7343-43	T541X226(5)050(4)(6)(1)10	N/A	•	110	10	75	1,897	125
50	33	X/7343-43	T541X336M050AH(1)10	04052-064(2)	•	165	10	75	1,897	125
50	33	X/7343-43	T541X336(5)050(4)(6)(1)10	N/A	•	165	10	75	1,897	125
50	47	O/7360-43	T541O476M050(4)(6)(1)10	N/A	•	235	10	60	2,240	125
63	4.7	D/7343-31	T540D475M063AH(1)20	04051-048(2)	•	30	10	100	1,500	125
63	4.7	D/7343-31	T540D475(5)063(4)(6)(1)20	N/A	•	30	10	100	1,500	125
63	4.7	D/7343-31	T540D475M063AH(1)10	04051-049(2)	•	30	10	120	1,369	125
63	4.7	D/7343-31	T540D475(5)063(4)(6)(7)10	N/A	•	30	10	120	1,369	125
63	10	X/7343-43	T541X106M063AH(1)10	04052-067(2)	•	63	10	150	1,342	125
63	10	X/7343-43	T541X106(5)063(4)(6)(1)10	N/A	•	63	10	150	1,342	125
63	10	X/7343-43	T541X106M063AH(1)20	04052-066(2)	•	63	10	100	1,643	125
63	10	X/7343-43	T541X106(5)063(4)(6)(1)20	N/A	•	63	10	100	1,643	125
63	10	X/7343-43	T541X106M063AH(1)30	04052-065(2)	•	63	10	75	1,897	125
63	10	X/7343-43	T541X106(5)063(4)(6)(1)30	N/A	•	63	10	75	1,897	125
63	15	X/7343-43	T541X156M063AH(1)10	04052-068(2)	•	95	10	50	2,324	125
63	15	X/7343-43	T541X156(5)063(4)(6)(1)10	N/A	•	95	10	50	2,324	125
63	22	O/7360-43	T541O226M063(4)(6)(1)10	N/A	•	139	10	40	2,740	125
VDC at 105°C	µF	KEMET/EIA	(See below for part options)	Part Number	(85°C/85%) Capable	µA at 25°C Maximum	% at 25°C 120 Hz Maximum	mΩ at 25°C 100 kHz Maximum	(rms) mA at 45°C 100 kHz	°C
Rated Voltage	Rated Cap	Case Code/ Case Size	KEMET Part Number	DLA Drawing Number 04051/04052	Improved Humidity	DC Leakage	DF	ESR	Maximum Allowable Ripple Current	Maximum Operating Temp.

(1) To complete KEMET part number, insert 65 = 4 cycles +25°C, 66 = 10 cycles +25°C, 67 = 10 cycles -55°C and +85°C, Designates surge current option.

(2) To complete DLA part number, insert Blank = None, A = 10 cycles +25°C ±5°C After Voltage Aging, B = 10 cycles -55°C and +85°C ±5°C After Voltage Aging.

(3) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours, C = 0.01%/1,000 hours, D=0.001%/1,000 hours. Designates Reliability Level.

(4) To complete KEMET part number for non-DLA, insert A = N/A, insert B = 0.1%/1,000 hours or C = 0.01%/1,000 hours. Designates Reliability Level.

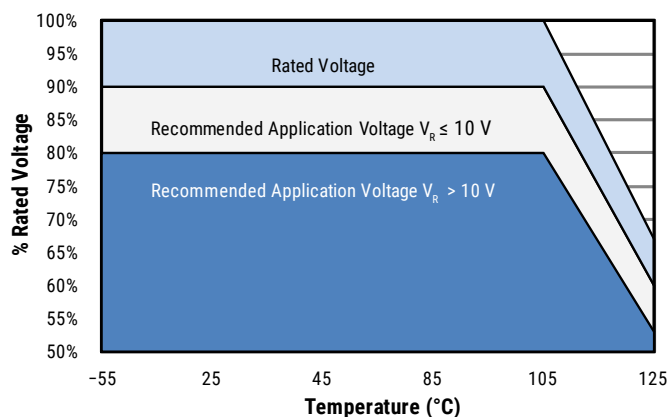
(5) To complete KEMET part number, insert M for ±20% or K for ±10%. Designates capacitance tolerance.

(6) To complete KEMET part number insert, H = Solder Plated, T = 100% Tin (Sn). Designates termination finish.

(7) To complete KEMET part number, insert 85 = 4 cycles at 25°C ±5°C ** + improved humidity capability, 86 = 10 cycles at 25°C ±5°C*** + improved humidity capability, 87= 10 cycles at -55°C +0°C/-5°C and +85°C ±5°C*** + improved humidity capability. Designates surge current option on improved humidity capability.

Part Numbers marked in blue font are "Under Development." Engineering samples available upon request.

Derating Guidelines



Recommended Application Voltage

KO-CAPs are solid state capacitors that demonstrate no wearout mechanism when operated within their recommended guidelines. While the KO-CAP can be operated at full rated voltage, most circuit designers seek a minimum level of assurance in long term reliability, which should be demonstrated with data. A voltage derating can provide the desired level of demonstrated reliability based on industry accepted acceleration models. Since most applications do require long term reliability, KEMET recommends that designers consider a voltage derating, according the graphic above, for the maximum steady state voltage.

Voltage Rating	Maximum Recommended Steady State Voltage	Maximum Recommended Steady State Voltage
	-55°C to 105°C	105°C to 125°C
$2 \text{ V} \leq V_R \leq 10 \text{ V}$	90% of V_R	60% of V_R , See Chart
$12.5 \text{ V} \leq V_R \leq 63 \text{ V}$	80% of V_R	54% of V_R , See Chart

V_R = Rated Voltage

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:

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

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.

Case Code	EIA Case Code	Maximum Power Dissipation (Pmax) mWatts at 45°C with +30°C Rise
A	3216-18	112
B	3528-20	127
C	6032-28	165
D	7343-31	255
O	7360-43	300
X	7443-43	270
Y	7343-40	263

Temperature Compensation Multipliers for Maximum Ripple Current		
T ≤ 45°C	45° C < T ≤ 85°C	85°C < T ≤ 125°C
1.00	0.70	0.25

T = Environmental Temperature

Using the Pmax 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)

Pmax = maximum power dissipation (watts)

R = ESR at specified frequency (ohms)

Z = Impedance at specified frequency (ohms)

Surge Voltage

Surge voltage is the maximum voltage (peak value) which may be applied to the capacitor.

The surge voltage must not be applied for periodic charging and discharging in the course of normal operation and cannot be part of the application voltage.

Surge voltage capability is demonstrated by application of 1,000 cycles at relevant voltage at 105°C and 125°C.

The parts are charged through a 33 Ohm resistor for 30 seconds and then discharged through a 33 Ohm resistor for each cycle.

Rated Voltage (V)	Surge Voltage (V)	Category Voltage (V)	Category Surge Voltage (V)
–55°C to 105°C		up to 125°C	
2.5	3.3	1.7	2.2
6.3	8.2	4.2	5.5
10	13.0	6.7	8.7
16	20.8	10.7	13.9
20	26.0	13.4	17.4
25	32.5	16.8	21.8
35	45.5	23.5	30.5
50	65.0	33.5	43.6

Reverse Voltage

Polymer electrolytic capacitors are polar devices and may be permanently damaged or destroyed if connected in the wrong polarity. These devices will withstand a small degree of transient voltage reversal for short periods as shown in the below table.

Temperature	Permissible Transient Reverse Voltage
25°C	15% of Rated Voltage
55°C	10% of Rated Voltage
85°C	5% of Rated Voltage
105°C	3% of Rated Voltage
125°C*	1% of Rated Voltage

*For series rated to 125°C

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	V2
A	3216-18	1.35	2.20	0.62	6.02	2.80	1.23	1.80	0.82	4.92	2.30	1.13	1.42	0.98	4.06	2.04
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	6032-25	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
O	7360-43	4.25	2.77	3.67	10.22	7.30	4.13	2.37	3.87	9.12	6.80	4.03	1.99	4.03	8.26	6.54
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
Y ¹	7343-40	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

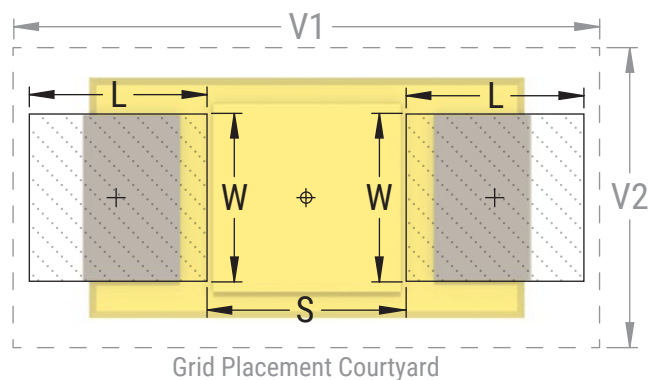
Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

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

KEMET's 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.

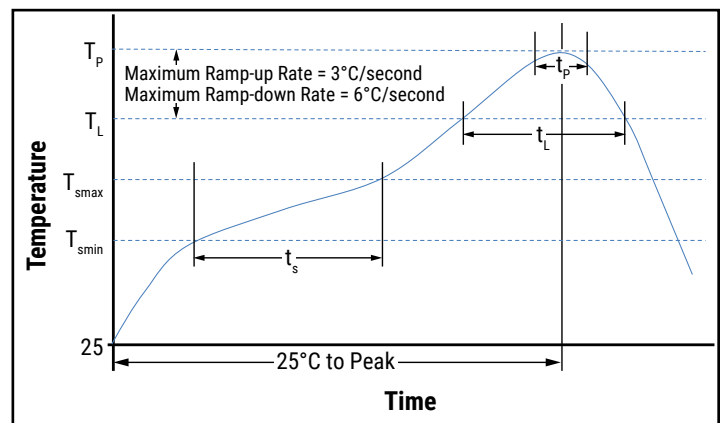
During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

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/seconds maximum	3°C/seconds 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/seconds maximum	6°C/seconds 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

All KO-Cap Series are shipped in moisture barrier bags (MBBs) with desiccant and humidity indicator card (HIC). These parts are classified as MSL3 (Moisture Sensitivity Level 3) per IPC/JEDEC J-STD-020 and packaged per IPC/JEDEC J-STD-033.

MSL3 specifies a floor time of 168H at 30°C maximum temperature and 60% relative humidity. Unused capacitors should be sealed in a MBB with fresh desiccant.

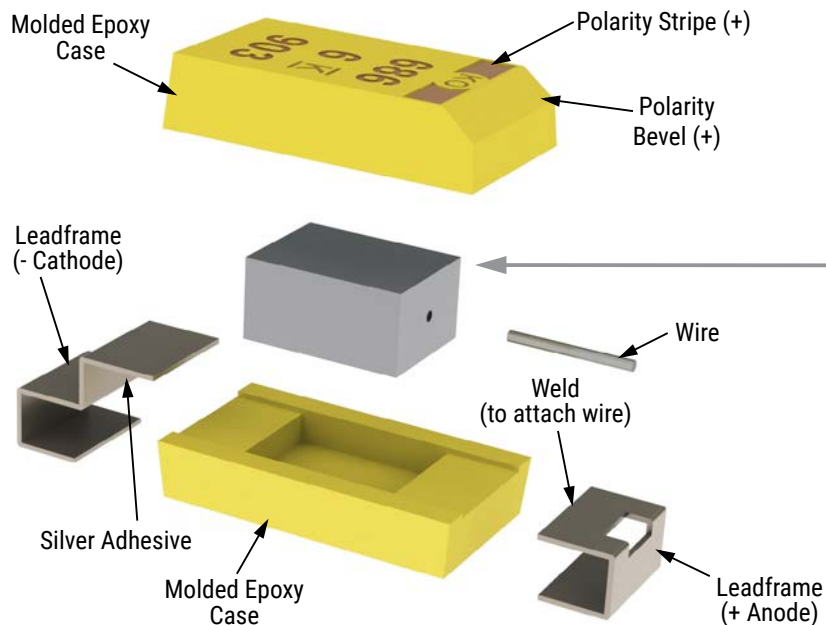
Calculated shelf life in sealed bag:

- 12 months from bag seal date in a storage environment of < 40°C and humidity < 90% RH
- 24 months from bag seal date in a storage environment of < 30°C and humidity < 70% RH

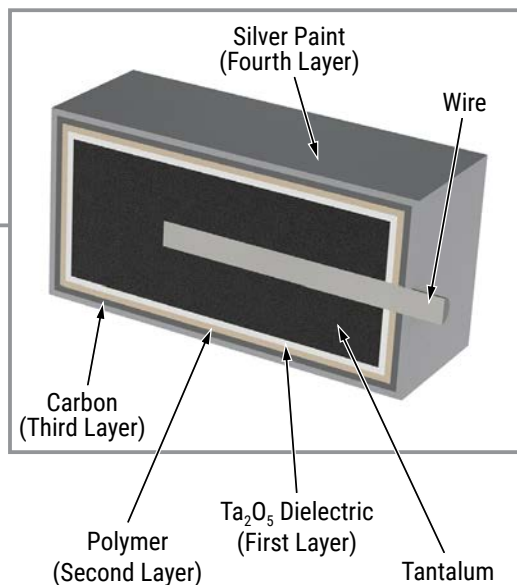
If baking is required, refer to IPC/JEDEC J-STD-033 for bake procedure

Construction

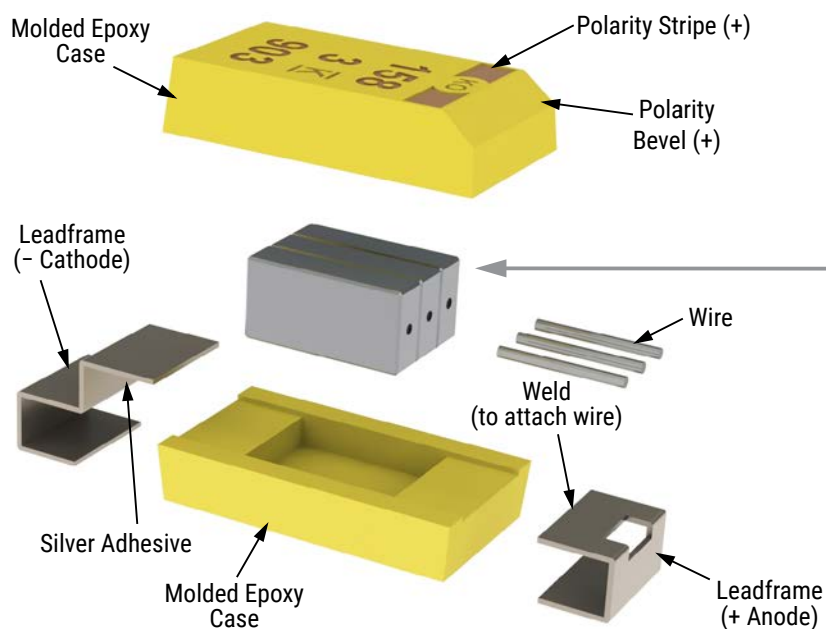
T540



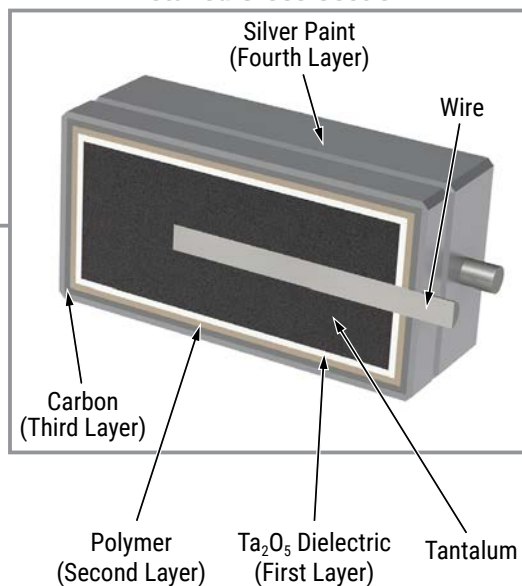
Detailed Cross Section



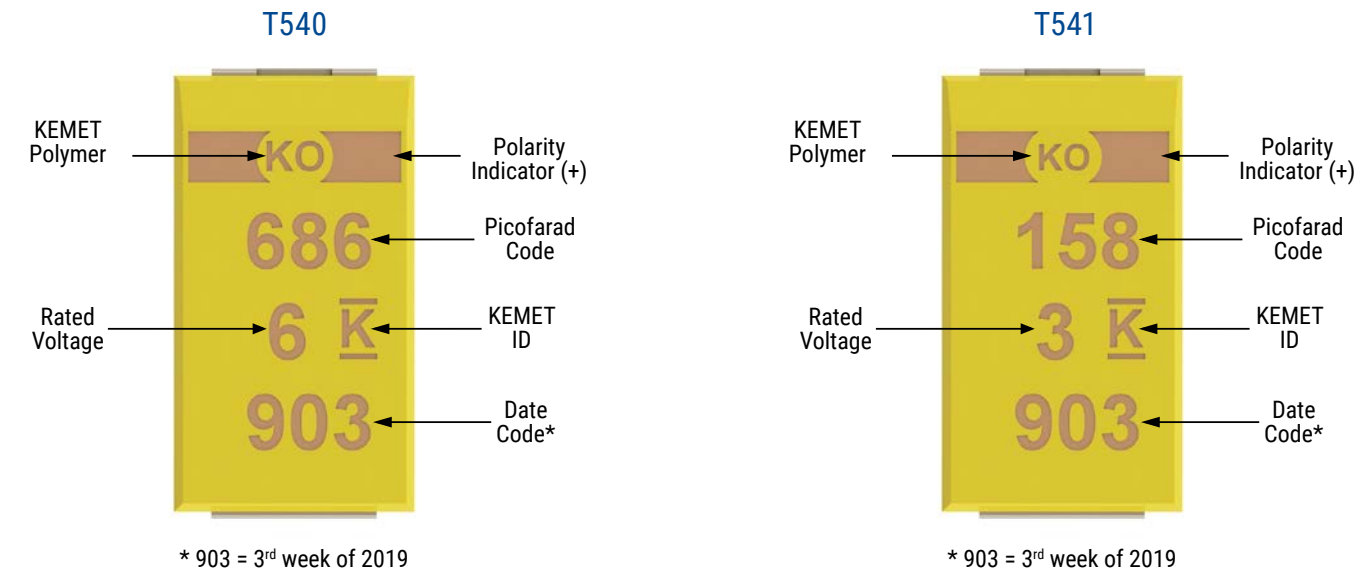
T541 - Multiple Anodes Polymer



Detailed Cross Section



Capacitor Marking



Note: On parts with selected surge codes (8X) the epoxy is black.

Date Code *	
1 st digit = Last number of Year	4 = 2014 5 = 2015 6 = 2016 7 = 2017 8 = 2018 9 = 2019
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.

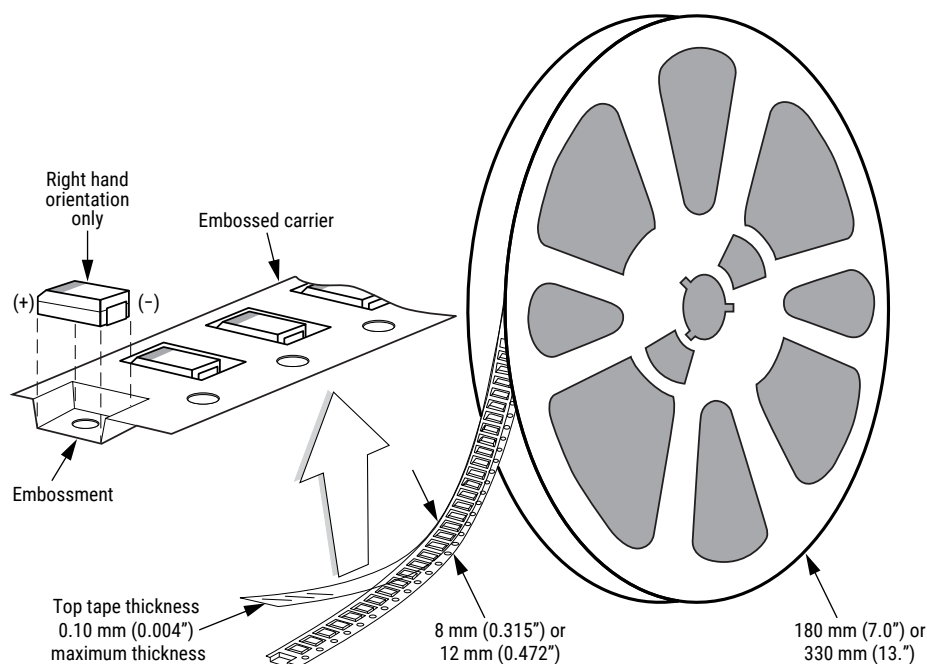


Table 3 – Packaging Quantity

Case Code		Tape Width (mm)	7" Reel*	13" Reel*
KEMET	EIA			
P	2012-10	8	3,000	N/A
R	2012-12	8	2,500	10,000
I	3216-10	8	3,000	N/A
S	3216-12	8	2,500	10,000
A	3216-18	8	2,000	N/A
T	3528-12	8	3,000	10,000
M	3528-15	8	2,500	8,000
B	3528-21	8	2,000	8,000
U	6032-15	12	1,000	5,000
L	6032-19	12	1,000	3,000
C	6032-28	12	500	3,000
Q	7343-12	12	1,000	3,000
W	7343-15	12	1,000	3,000
Z	7343-17	12	1,000	3,000
V	7343-19	12	1,000	3,000
D	7343-31	12	500	2,500
Y	7343-40	12	500	2,000
X	7343-43	12	500	2,000
J	7360-15	12	1,000	3,000
H	7360-20	12	1,000	3,000
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

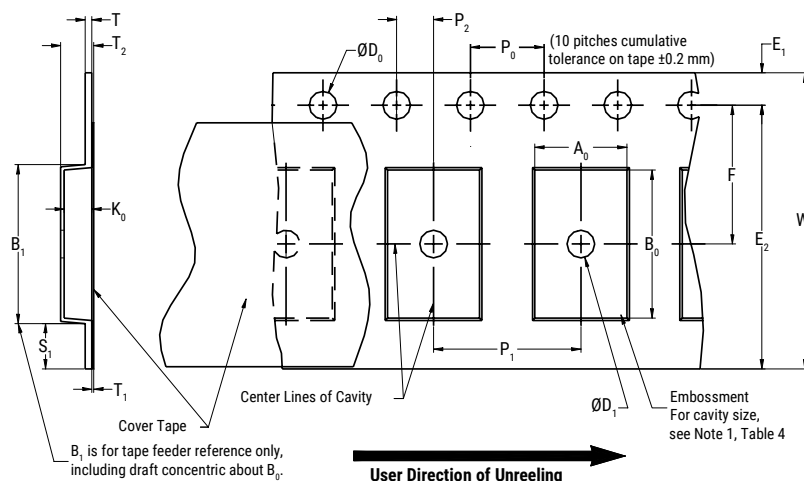


Table 4 – Embossed (Plastic) Carrier Tape Dimensions

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) 30 (1.181)	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 $S_1 < 1.0$ 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. B_1 dimension is a reference dimension for tape feeder clearance only.
5. The cavity defined by A_0 , B_0 and K_0 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

- 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

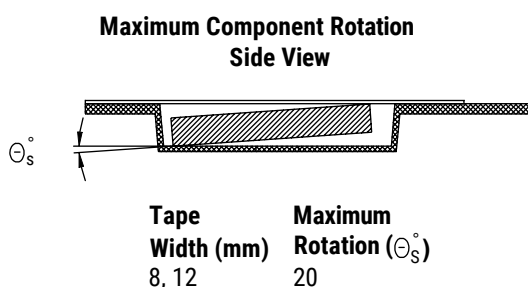
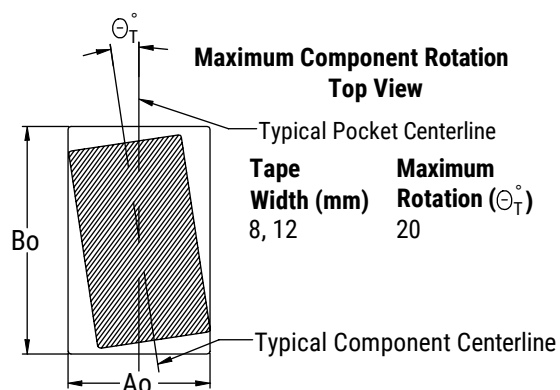


Figure 3 – Maximum Lateral Movement

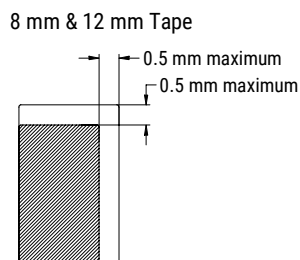


Figure 4 – Bending Radius

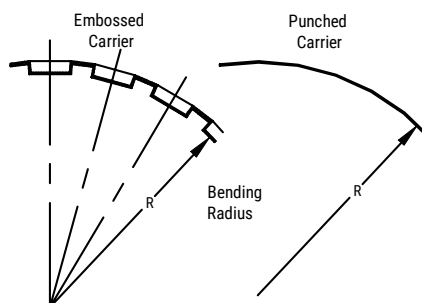
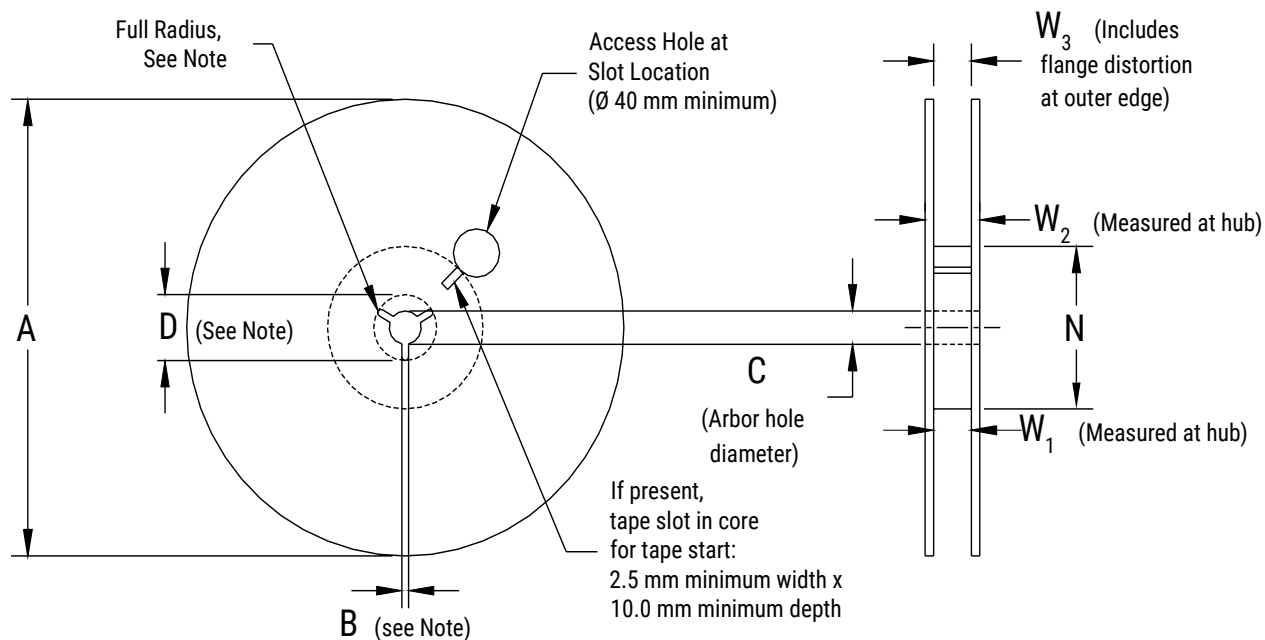


Figure 5 – Reel Dimensions



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

Table 5 – Reel Dimensions

Metric will govern

Constant Dimensions – Millimeters (Inches)				
Tape Size	A	B Minimum	C	D Minimum
8 mm	178 ±0.20 (7.008 ±0.008) or 330 ±0.20 (13.000 ±0.008)	1.5 (0.059)	13.0 +0.5/-0.2 (0.521 +0.02/-0.008)	20.2 (0.795)
12 mm				
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

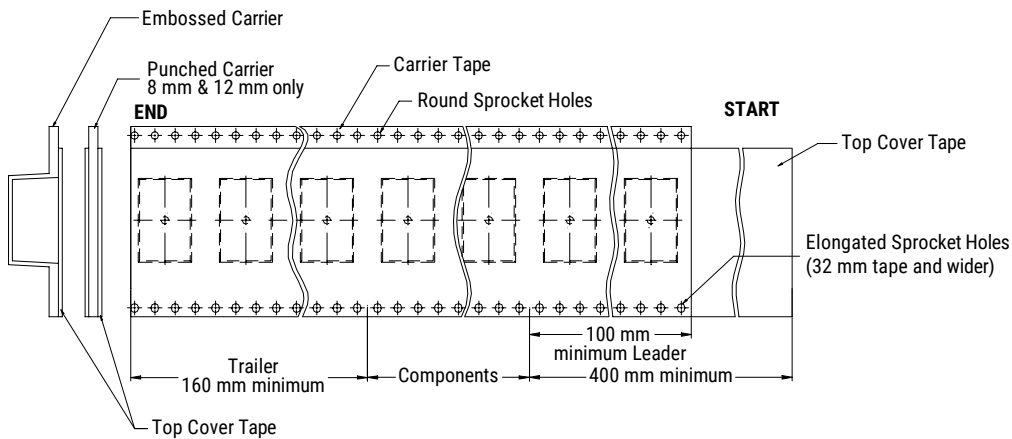
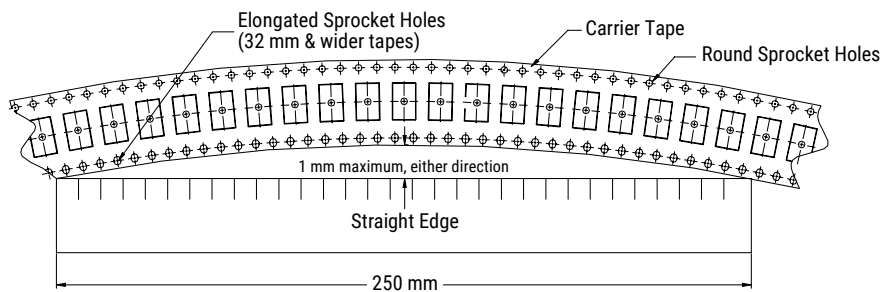


Figure 7 – Maximum Camber



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