

KEMET CONDUCTIVE POLYMER CHIP CAPACITORS

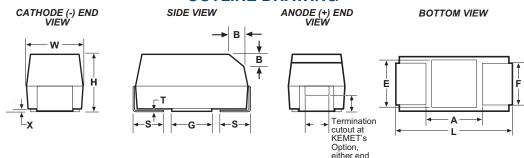
T520 Series - KO Cap

FEATURES

- Polymer Cathode Technology
- Low ESR
- High Frequency Cap Retention
- No-Ignition Failure Mode
- Use Up to 90% of Rated Voltage (10% Derating) EIA Standard Case Sizes for part types ≤ 10 Volts
- Halogen Free Epoxy
- 100% Accelerated Steady State Aging
- Volumetrically Efficient

- Use Up to 80% of Rated Voltage (20% Derating) for part types > 10 Volts
- Capacitance 15 to 1000µF (±20%)
- Voltage 2V to 25V
- 100% Surge Current Tested
- Operating Temperature -55°C to +105°C
- Self Healing Mechanism
- RoHS Compiant & Leadfree Terminations (see www.kemet.com for lead transition)

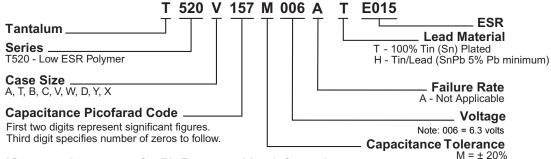
OUTLINE DRAWING



DIMENSIONS - MILLIMETERS

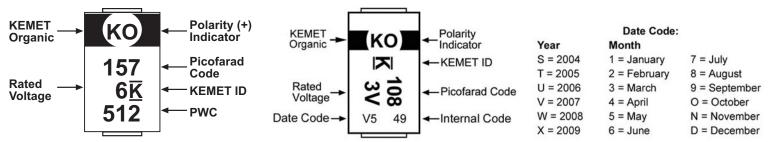
Cas	se Size							, and the second			
KEMET	EIA	L	W	Н	F ± 0.1	S ± 0.3	X(Ref)	T(Ref)	A(Min)	G(ref)	E(ref)
Α	3216-18	3.2 ± 0.2	1.6 ± 0 2	1.6 ± 0.2	1.2	0.8	0.10 ± 0.10	0.13	0.8	1.1	1.3
T	3528-12	3.5 ± 0.2	2.8 ± 0 2	1.2 max	2.2	0.8	0.05	0.13	1.1	1.8	2.2
M	3528-15	3.5 ± 0.2	2.8 ± 0 2	1.5 max	2.2	0.8	0.11	0.13	2.1	1.8	2.2
В	3528-21	3.5 ± 0.2	2.8 ± 0 2	1.9 ± 0.1	2.2	0 8	0.10 ± 0.10	0.13	1.1	1.8	2.2
U	6032-15	6.0 ± 0.3	3.2 ± 0.3	1.5 max	2.2	13	0.05	0.13	3.1	2.8	2.4
L	6032-19	6.0 ± 0.3	3.2 ± 0.3	1.9 max	2.2	13	0.10 ± 0.10	0.13	2.5	2.8	2.4
С	6032-28	6.0 ± 0.3	3.2 ± 0.3	2.5 ± 0.3	2.2	13	0.10 ± 0.10	0.13	2.5	2.8	2.4
W	7343-15	7.3 ± 0.3	4.3 ± 0 3	1.5 max	2.4	13	0.05	0.13	3.8	3.5	3.5
V	7343-20	7.3 ± 0.3	4.3 ± 0 3	1.9 max	2.4	13	0.05	0.13	3.8	3.5	3.5
D	7343-31	7.3 ± 0.3	4.3 ± 0 3	2.8 ± 0.3	2.4	13	0.10 ± 0.10	0.13	3.8	3.5	3.5
Υ	7343-40	7.3 ± 0.3	4.3 ± 0 3	4.0 max	2.4	13	0.10 ± 0.10	0.13	3.8	3.5	3.5
Х	7343-43	7.3 ± 0.3	4.3 ± 0 3	4.0 ± 0.3	2.4	1 3	0.10 ± 0.10	0.13	3.8	3.5	3.5

T520 ORDERING INFORMATION



^{*}See www.kemet.com for Pb Free transition information.

COMPONENT MARKING



512 = 12th week of 2005

CONDUCTIVE POLYMER CHIP CAPACITORS KEN T520 Series - KO Cap



T520 RATINGS & PART NUMBER REFERENCE

Rated Voltage (V)	Rated Capaci- tance (µF)	Case Code/ Case Size	KEMET Part Number	DC Leakage µA @ 20°C max/ 5min	DF% @ 20°C 120 Hz Max	ESR mΩ @ 20°C 100 kHz Max	Maximum allowable ripple current (mArms) 100kHz*	MSL Reflow Temp ≤ 260°C
2	470	V/7343-19	T520V477M002A(1)E040	94	10	40	2200	3
	47	A/3216-18	T520A476M2R5A(1)E090	12	8	90	1100	
	56	T/3528-12	T520T566M2R5A(1)E040	14	6	40	1600	
	56	T/3528-12	T520T566M2R5A(1)E070	14	8	70	1200	
	68	A/3216-18	T520A686M2R5A(1)E070	17	8	70	1300	
	68	A/3216-18	T520A686M2R5A(1)E080	17	8	80	1200	
	100	T/3528-12	T520T107M2R5A(1)E040	25	8	40	1600	
	100	T/3528-12	T520T107M2R5A(1)E070	25	8	70	1200	
	100	B/3528-20	T520B107M2R5A(1)E025	25	8	25	2300	
	100	B/3528-20	T520B107M2R5A(1)E035	25	8	35	1900	
	100	B/3528-20	T520B107M2R5A(1)E040	25	8	40	1800	ł
	100 150	B/3528-20 U/6032-15	T520B107M2R5A(1)E070	25 38	8	70 55	1300 1600	
	220	B/3528-20	T520U157M2R5A(1)E055 T520B227M2R5A(1)E015	55	8	15	2900	ł
	220	B/3528-20	T520B227M2R5A(1)E018	55	8	15	2900	
	220	B/3528-20	T520B227M2R5A(1) E021	55	8	21	2500	
	220	B/3528-20	T520B227M2R5A(1)E025	55	8	25	2300	
	220	B/3528-20	T520B227M2R5A(1)E030	55	8	30	2100	
	220	B/3528-20	T520B227M2R5A(1)E035	55	8	35	1900	
	220	B/3528-20	T520B227M2R5A(1) E055	55	8	55	1500	
	220	B/3528-20	T520B227M2R5A(1)E070	55	8	70	1300	
	220	U/6032-15	T520U227M2R5A(1)E055	55	8	55	1600	
	220	C/6032-28	T520C227M2R5A(1)E025	55	8	25	2600	
	220	C/6032-28	T520C227M2R5A(1)E045	55	8	45	1900	
	220	W/7343-15	T520W227M2R5A(1) E025	55	8	25	2200	
	220	V/7343-19	T520V227M2R5A(1)E007	55	10	7	5200	
	220	V/7343-19	T520V227M2R5A(1)E009	55	10	9	4600	
	220	V/7343-19	T520V227M2R5A(1)E012	55	10	12	3900	
	220	V/7343-19	T520V227M2R5A(1)E015	55	10	15	3500	
	220	V/7343-19	T520V227M2R5A(1)E025	55	10	25	2700	
	220	V/7343-19	T520V227M2R5A(1)E045	55	10	45	2000	
	220 220	D/7343-31	T520D227M2R5A(1)E007	55 55	10	7 40	5700	
		D/7343-31	T520D227M2R5A(1)E040		10	45	2400	
	330	B/3528-20 B/3528-20	T520B337M2R5A(1)E045 T520B337M2R5A(1)E070	83 83	8	70	1700 1300	
	330	C/6032-28	T520C337M2R5A(1)E015	83	8	15	3300	
	330	C/6032-28	T520C337M2R5A(1)E018	83	8	18	3000	
	330	C/6032-28	T520C337M2R5A(1)E025	83	8	25	2600	
2.5	330	C/6032-28	T520C337M2R5A(1)E045	83	8	45	1900	3
	330	L/6032-20	T520L337M2R5A(1)E009	83	10	9	4100	
	330	L/6032-20	T520L337M2R5A(1)E012	83	10	12	3500	
	330	L/6032-20	T520L337M2R5A(1)E025	83	10	25	2400	
	330	W/7343-15	T520W337M2R5A(1)E015	83	10	15	2800	
	330	W/7343-15	T520W337M2R5A(1)E025	83	10	25	2200	
	330	W/7343-15	T520W337M2R5A(1)E040	83	10	40	1700	
	330	V/7343-19	T520V337M2R5A(1)E006	83	10	6	5600	
	330	V/7343-19	T520V337M2R5A(1)E007	83	10	7	5200	
	330	V/7343-19	T520V337M2R5A(1)E009	83	10	9	4600	
	330	V/7343-19	T520V337M2R5A(1)E012	83	10	12	3900	
	330	V/7343-19	T520V337M2R5A(1)E015	83	10	15	3500	ł
	330	V/7343-19	T520V337M2R5A(1)E018	83 83	10 10	18	3200	1
	330 330	V/7343-19 V/7343-19	T520V337M2R5A(1)E025 T520V337M2R5A(1)E040	83	10	25 40	2700 2200	1
	330	D/7343-19	T520D337M2R5A(1)E006	83	10	6	6100	1
	330	D/7343-31	T520D337M2R5A(1)E007	83	10	7	5700	1
	470	V/7343-19		118	10	7	5200	1
	470	V/7343-19	T520V477M2R5A(1)E009	118	10	9	4600	1
	470	V/7343-19	T520V477M2R5A(1)E012	118	10	12	3900	1
	470	V/7343-19	T520V477M2R5A(1)E015	118	10	15	3500	1
	470	V/7343-19	T520V477M2R5A(1)E018	118	10	18	3200	
	470	C/6032-28	T520C477M2R5A(1)E025	118	8	25	2600	1
	470	C/6032-28	T520C477M2R5A(1)E045	118	8	45	1900	
	470	D/7343-31	T520D477M2R5A(1)E006	118	10	6	6100	
	470	D/7343-31	T520D477M2R5A(1)E007	118	10	7	5700	
	470	D/7343-31	T520D477M2R5A(1)E009	118	10	9	5000	
	680	D/7343-31	T520D687M2R5A(1)E010	170	10	10	4700	
	680	D/7343-31	T520D687M2R5A(1)E015	170	10	15	3900	
	680	D/7343-31	T520D687M2R5A(1)E040	170	10	40	2400	
	680	Y/7343-40	T520Y687M2R5A(1)E015	170	10	15	4000	1
	680	Y/7343-40	T520Y687M2R5A(1)E025	170	10	25	3100	1
	1000	D/7343-31	T520D108M2R5A(1)E015	250	8	15	3900	l
	1000	D/7343-31 Y/7343-40	T520D108M2R5A(1)E030	250 250	10 10	30 10	2700 4900	1
	1000	Y/7343-40	T520Y108M2R5A(1)E010 T520Y108M2R5A(1)E015	250	10	15	4000	ł
	1000	Y/7343-40	T520Y108M2R5A(1)E015	250	10	25	3100	1
	1000	X/7343-40	T520X108M2R5A(1)E023	250	10	10	5000	1
ь	.500	. 4. 545 45		200			0kHz 45° C	!

*100kHz	to	500kHz,	45°	С

⁽¹⁾ To complete KEMET part number, insert letter designation for lead material from page 50. Higher voltage ratings and tighter tolerance product may be substituted with the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

Rated Voltage (V)	Rated Capaci- tance (µF)	Case Code/ Case Size	KEMET Part Number	DC Leakage µA @ 20°C max/ 5min	DF% @ 20°C 120 Hz Max	ESR mΩ @ 20°C 100 kHz Max	Maximum allowable ripple current (mArms) 100kHz*	MSL Reflow Temp ≤ 260°0
	100	B/3528-20	T520B107M003A(1)E025	30	8	25	2300	
	100	B/3528-20	T520B107M003A(1)E035	30	8	35	1900	
	100	B/3528-20	T520B107M003A(1)E040	30	8	40	1800	
	100	B/3528-20	T520B107M003A(1)E070	30	8	70	1300	
	150	B/3528-20	T520B157M003A(1)E035	45	8	35	1900	
	150 150	B/3528-20 B/3528-20	T520B157M003A(1)E040 T520B157M003A(1)E070	45 45	8	40 70	1800 1300	
3	330	V/7343-19	T520V337M003A(1)E009	99	10	9	4600	3
-	330	V/7343-19	T520V337M003A(1)E012	99	10	12	3900	_
	330	V/7343-19	T520V337M003A(1)E015	99	10	15	3500	
	330	V/7343-19	T520V337M003A(1)E025	99	10	25	2700	
	680	D/7343-31	T520D687M003A(1)E015	204	10	15	3900	
	680	D/7343-31	T520D687M003A(1)E040	204	10	40	2400	
	1000	X/7343-43	T520X108M003A(1)E015	300	10	15	4100	
	1000	X/7343-43	T520X108M003A(1)E030	300	10	30	2900	
	15	T/3528-12	T520T156M004A(1)E100	6	8	100	1000	
	33	A/3216-18	T520A336M004A(1)E070	13	8	70	1300	
	33	A/3216-18	T520A336M004A(1)E080	13	8	80	1200	
	47	A/3216-18	T520A476M004A(1)E070	19	8	70	1300	
	47	A/3216-18	T520A476M004A(1)E080	19	8	80	1200	
	47 68	T/3528-12 T/3528-12	T520T476M004A(1)E070	19 27	8	70 70	1200 1200	
	68	B/3528-20	T520T686M004A(1)E070 T520B686M004A(1)EO25	27	8	25	2300	
	68	B/3528-20	T520B686M004A(1)E035	27	8	35	1900	
	68	B/3528-20	T520B686M004A(1)E040	27	8	40	1800	
	68	B/3528-20	T520B686M004A(1)E070	27	8	70	1300	
	68	U/6032-15	T520U686M004A(1)E055	27	8	55	1600	
	100	A/3216-18	T520A107M004A(1) E200	40	8	200	700	
	100	T/3528-12	T520T107M004A(1)E070	40	8	70	1200	
	100	T/3528-12	T520T107M004A(1)E150	40	8	150	800	
	100	B/3528-20	T520B107M004A(1)E025	40	8	25	2300	
	100	B/3528-20	T520B107M004A(1)E035	40	8	35	1900	
	100	B/3528-20	T520B107M004A(1)E040	40	8	40	1800	
	100	B/3528-20	T520B107M004A(1)E070	40	8	70	1300	
	100	U/6032-15	T520U107M004A(1)E055	40	8	55	1600	
	150	B/3528-20	T520B157M004A(1)E015	60	8	15	2900	
	150	B/3528-20	T520B157M004A(1)E018	60	8	18	2700	
	150 150	B/3528-20	T520B157M004A(1)E035	60 60	8	35 40	1900 1800	
	150	B/3528-20 B/3528-20	T520B157M004A(1)E040 T520B157M004A(1)E070	60	8	70	1300	
	150	U/6032-15	T520U157M004A(1)E055	60	8	55	1600	
	150	C/6032-28	T520C157M004A(1)E015	60	8	15	3300	
4	150	C/6032-28	T520C157M004A(1)E025	60	8	25	2600	3
	150	C/6032-28	T520C157M004A(1)E045	60	8	45	1900	
	150	C/6032-28	T520C157M004A(1)E100	60	8	100	1300	
	150	V/7343-19	T520V157M004A(1)E007	60	10	7	5200	
	150	V/7343-19	T520V157M004A(1)E009	60	10	9	4600	
	150	V/7343-19	T520V157M004A(1)E012	60	10	12	3900	l
	150	V/7343-19	T520V157M004A(1)E015	60	10	15	3500	l
	150	V/7343-19	T520V157M004A(1)E025	60	10	25	2700	l
	150	D/7343-31	T520D157M004A(1)E007	60	10	7	5700	l
	220	B/3528-20	T520B227M004A(1)E035	88	8	35	1900	l
	220	B/3528-20	T520B227M004A(1)E045	88	8	45	1700	
	220	B/3528-20	T520B227M004A(1)E070	88	8	70	1300	
	220	C/6032-28 C/6032-28	T520C227M004A(1)E015	88 88	8	15 18	3300	
	220	C/6032-28 C/6032-28	T520C227M004A(1)E018 T520C227M004A(1)E025	88	8	18 25	3000 2600	
	220	C/6032-28	T520C227M004A(1)E025	88	8	45	1900	l
	220	C/6032-28	T520C227M004A(1)E055	88	8	55	1700	l
	220	L/6032-20	T520L227M004A(1)E012	88	8	12	3500	l
	220	L/6032-20	T520L227M004A(1)E025	88	10	25	2400	l
	220	W/7343-15	T520W227M004A(1)E040	88	10	40	1700	l
	220	V/7343-19	T520V227M004A(1)E007	88	10	7	5200	l
	220	V/7343-19	T520V227M004A(1)E009	88	10	9	4600	
	220	V/7343-19	T520V227M004A(1)E012	88	10	12	3900	
	220	V/7343-19	T520V227M004A(1)E015	88	10	15	3500	
	220	V/7343-19	T520V227M004A(1)E018	88	10	18	3200	l
	000	V/7343-19	T520V227M004A(1)E025	88	10	25	2700	1
	220 220	V/7343-19	T520V227M004A(1)E040	88	10	40	2200	

*100kHz to 500kHz, 45° C

⁽¹⁾ To complete KEMET part number, insert letter designation for lead material from page 50. Higher voltage ratings and tighter tolerance product may be substituted with the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.



KENET CONDUCTIVE POLYMER CHIP CAPACITORS T520 Series - KO Cap

T520 RATINGS & PART NUMBER REFERENCE

Rated Voltage (V)	Rated Capaci- tance (µF)	Case Code/ Case Size	KEMET Part Number	DC Leakage µA @ 20°C max/ 5min	DF% @ 20°C 120 Hz Max	ESR mΩ @ 20°C 100 kHz Max	Maximum allowable ripple current (mArms) 100kHz*	MSL Reflow Temp ≤ 260°C
	220	D/7343-31	T520D227M004A(1)E006	88	10	6	6100	
	220	D/7343-31	T520D227M004A(1)E007	88	10	7	5700	
	220	D/7343-31	T520D227M004A(1)E012	88	10	12	4300	
	220	D/7343-31	T520D227M004A(1)E065	88	10	65	1900	
	330	C/6032-28 V/7343-19	T520C337M004A(1)E025	132 132	10	25 7	2600 5200	
	330	V/7343-19	T520V337M004A(1)E007 T520V337M004A(1)E009	132	10	9	4600	
	330	V/7343-19	T520V337M004A(1)E012	132	10	12	3900	
	330	V/7343-19	T520V337M004A(1)E018	132	10	18	3200	
	330	V/7343-19	T520V337M004A(1)E025	132	10	25	2700	
	330	V/7343-19	T520V337M004A(1)E040	132	10	40	2200	
	330	D/7343-31	T520D337M004A(1)E006	132	10	6	6100	
	330	D/7343-31	T520D337M004A(1)E007	132	10	7	5700	
	330	D/7343-31	T520D337M004A(1)E009	132	10	9	5000	
	330	D/7343-31 D/7343-31	T520D337M004A(1)E012 T520D337M004A(1)E015	132 132	10	12 15	4300 3900	
4	330	D/7343-31	T520D337M004A(1)E040	132	10	40	2400	3
-	330	D/7343-31	T520D337M004A(1)E045	132	8	45	2200	
	470	D/7343-31	T520D477M004A(1)E010	188	10	10	4700	
	470	D/7343-31	T520D477M004A(1)E012	188	10	12	4300	
	470	D/7343-31	T520D477M004A(1)E015	188	10	15	3900	
	470	D/7343-31	T520D477M004A(1)E018	188	10	18	3500	
	470	D/7343-31	T520D477M004A(1)E025	188	10	25	3000	
	470	D/7343-31	T520D477M004A(1)E040	188	10	40	2400	
	680 680	D/7343-31 D/7343-31	T520D687M004A(1)E012 T520D687M004A(1)E015	272 272	10 10	12 15	4300 3900	
	680	D/7343-31	T520D687M004A(1)E015	272	10	25	3000	
	680	Y/7343-40	T520Y687M004A(1)E010	272	10	10	4900	
	680	Y/7343-40	T520Y687M004A(1)E015	272	10	15	4000	
	680	Y/7343-40	T520Y687M004A(1)E025	272	10	25	3100	
	680	X/7343-43	T520X687M004A(1)E010	272	10	10	5000	
	680	X/7343-43	T520X687M004A(1)E015	272	10	15	4100	
	680	X/7343-43	T520X687M004A(1)E035	272	10	35	2700	
	15 22	T/3528-12	T520T156M006A(1)E100	9.5 14	8	100 90	1000	
	22	A/3216-18 A/3216-18	T520A226M006A(1)E090 T520A226M006A(1)E100	14	8	100	1100 1100	
	33	A/3216-18	T520A336M006A(1)E070	21	8	70	1300	
	33	A/3216-18	T520A336M006A(1)E080	21	8	80	1200	
	33	A/3216-18	T520A336M006A(1)E120	21	8	120	1000	
	33	T/3528-12	T520T336M006A(1)E070	21	8	70	1200	
	33	B/3528-20	T520B336M006A(1)E025	21	8	25	2300	
	33	B/3528-20	T520B336M006A(1)E035	21	8	35	1900	
	33	B/3528-20	T520B336M006A(1)E040	21	8	40	1800	
	33	B/3528-20 C/6032-28	T520B336M006A(1)E070	21 21	8	70 100	1300	
	47	T/3528-12	T520C336M006A(1)E100 T520T476M006A(1)E040	30	8	40	1300 1600	
	47	T/3528-12	T520T476M006A(1)E070	30	8	70	1200	
	47	B/3528-20	T520B476M006A(1)E025	30	8	25	2300	
	47	B/3528-20	T520B476M006A(1)E035	30	8	35	1900	
	47	B/3528-20	T520B476M006A(1)E040	30	8	40	1800	
	47	B/3528-20	T520B476M006A(1)E070	30	8	70	1300	
	68	T/3528-12	T520T686M006A(1)E070	43	8	70	1200	
6.3	68 68	T/3528-12	T520T686M006A(1)E150	43 43	8	150 25	800	3
0.5	68	B/3528-20 B/3528-20	T520B686M006A(1)E025 T520B686M006A(1)E035	43	8	35	2300 1900	
	68	B/3528-20	T520B686M006A(1)E040	43	8	40	1800	
	68	B/3528-20	T520B686M006A(1)E070	43	8	70	1300	
	68	U/6032-15	T520U686M006A(1)E055	43	8	55	1600	
	68	U/6032-15	T520U686M006A(1)E070	43	8	70	1400	
	68	C/6032-28	T520C686M006A(1) E100	43	8	100	1300	
	100	B/3528-20	T520B107M006A(1)E015	63	8	15	2900	
	100	B/3528-20	T520B107M006A(1)E018	63	8	18	2700	
	100	B/3528-20 B/3528-20	T520B107M006A(1)E040	63 63	8	40 45	1800 1700	
	100	B/3528-20	T520B107M006A(1)E045 T520B107M006A(1)E070	63	8	70	1300	
	100	U/6032-15	T520U107M006A(1)E055	63	8	55	1600	
	100	W/7343-15	T520W107M006A(1)E040	63	10	40	1700	
	100	V/7343-19	T520V107M006A(1)E007	63	10	7	5200	
	100	V/7343-19	T520V107M006A(1)E009	63	10	9	4600	
	100	V/7343-19	T520V107M006A(1)E012	63	10	12	3900	
	100	V/7343-19	T520V107M006A(1)E015	63	10	15	3500	
	100	V/7343-19	T520V107M006A(1)E045	63	10	45	2000	
	100	C/6032-28	T520C107M006A(1)E025	63	8	25	2600	l
	100	C/6032-28	T520C107M006A(1)E045	63	8	45	1900	

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Rated Voltage (V)	Rated Capaci- tance (µF)	Case Code/ Case Size	KEMET Part Number	DC Leakage µA @ 20°C max/ 5min	DF% @ 20°C 120 Hz Max	ESR mΩ @ 20°C 100 kHz Max	Maximum allowable ripple current (mArms) 100kHz*	MSL Reflow Temp ≤ 260°C
	120	B/3528-20	T520B127M006A(1)E035	76	8	35	1900	
	150	B/3528-20	T520B157M006A(1)E025	95	8	25	2300	
	150	B/3528-20	T520B157M006A(1)E035	95	8	35	1900	
	150	B/3528-20	T520B157M006A(1)E045	95	8	45	1700	
	150	B/3528-20	T520B157M006A(1)E070	95	8	70	1300	
	150	M/3528-15	T520M157M006A(1)E150	95	10	150	700	
	150 150	M/3528-15 C/6032-28	T520M157M006A(1)E200 T520C157M006A(1)E025	95 95	8	200 25	600 2600	
	150	C/6032-28	T520C157M006A(1)E045	95	8	45	1900	
	150	U/6032-15	T520U157M006A(1)E045	95	8	45	1700	
	150	U/6032-15	T520U157M006A(1)E055	95	8	55	1600	
	150	L/6032-20	T520L157M006A(1)E012	95	8	12	3500	
	150	L/6032-20	T520L157M006A(1)E025	95	10	25	2400	
	150 150	W/7343-15 W/7343-15	T520W157M006A(1)E025	95 95	10 10	25 40	2200 1700	
	150	V/7343-15 V/7343-19	T520W157M006A(1)E040 T520V157M006A(1)E007	95	10	7	5200	
	150	V/7343-19	T520V157M006A(1)E009	95	10	9	4600	
	150	V/7343-19	T520V157M006A(1)E012	95	10	12	3900	
	150	V/7343-19	T520V157M006A(1)E015	95	10	15	3500	
	150	V/7343-19	T520V157M006A(1)E025	95	10	25	2700	
	150	V/7343-19	T520V157M006A(1)E040	95	10	40	2200	
	150	V/7343-19	T520V157M006A(1)E045	95	10	45	2000	
	150 150	D/7343-31 D/7343-31	T520D157M006A(1)E006 T520D157M006A(1)E007	95 95	10	6 7	6100 5700	
	150	D/7343-31	T520D157M006A(1)E007	95	10	15	3900	
	150	D/7343-31	T520D157M006A(1)E025	95	10	25	3000	
	150	D/7343-31	T520D157M006A(1)E055	95	10	55	2000	
	220	C/6032-28	T520C227M006A(1)E015	139	8	15	3300	
	220	C/6032-28	T520C227M006A(1)E018	139	8	18	3000	
	220	C/6032-28	T520C227M006A(1)E025	139	8	25	2600	
	220	C/6032-28	T520C227M006A(1)E045	139	8	45	1900	
	220 220	V/7343-19 V/7343-19	T520V227M006A(1)E007 T520V227M006A(1)E009	139 139	10	7 9	5200 4600	
	220	V/7343-19	T520V227M006A(1)E012	139	10	12	3900	
	220	V/7343-19	-19 T520V227M006A(1)E015 139	10	15	3500		
6.3	220	V/7343-19	T520V227M006A(1)E025	139	10	25	2700	3
	220	V/7343-19	T520V227M006A(1)E040	139	10	40	2200	
	220	D/7343-31	T520D227M006A(1)E006	139	10	6	6100	
	220 220	D/7343-31 D/7343-31	T520D227M006A(1)E007 T520D227M006A(1)E009	139 139	10 10	7 9	5700 5000	
	220	D/7343-31	T520D227M006A(1)E009	139	10	15	3900	
	220	D/7343-31	T520D227M006A(1)E018	139	10	18	3500	
	220	D/7343-31	T520D227M006A(1)E025	139	10	25	3000	
	220	D/7343-31	T520D227M006A(1)E040	139	10	40	2400	
	220	D/7343-31	T520D227M006A(1)E050	139	10	50	2100	
	330	V/7343-19	T520V337M006A(1)E015	208	10	15	3500	
	330	V/7343-19 V/7343-19	T520V337M006A(1)E018 T520V337M006A(1)E025	208	10	18 25	3200 2700	
	330	V/7343-19	T520V337M006A(1)E040	208	10	40	2200	
	330	V/7343-19	T520V337M006A(1)E045	208	10	45	2000	
	330	D/7343-31	T520D337M006A(1)E009	208	10	9	5000	
	330	D/7343-31	T520D337M006A(1)E010	208	10	10	4700	
	330	D/7343-31	T520D337M006A(1)E015	208	10	15	3900	
	330 330	D/7343-31 D/7343-31	T520D337M006A(1)E018 T520D337M006A(1)E025	208	10 10	18 25	3500 3000	
	330	D/7343-31	T520D337M006A(1)E023	208	10	40	2400	
	330	D/7343-31	T520D337M000A(1)E045	208	10	45	2200	
	330	Y/7343-40	T520Y337M006A(1)E015	208	10	15	4000	
	330	Y/7343-40	T520Y337M006A(1)E025	208	10	25	3100	
	330	Y/7343-40	T520Y337M006A(1)E040	208	10	40	2500	
	470	Y/7343-40	T520Y477M006A(1)E010	296	10	10	4900	
	470 470	Y/7343-40 Y/7343-40	T520Y477M006A(1)E015 T520Y477M006A(1)E018	296 296	10	15 18	4000 3700	
	470	Y/7343-40	T520Y477M006A(1)E015	296	10	25	3100	
	470	Y/7343-40	T520Y477M006A(1)E035	296	10	35	2600	
	470	D/7343-31	T520D477M006A(1)E025	296	10	25	3000	
	470	D/7343-31	T520D477M006A(1)E030	296	10	30	2700	
	470	X/7343-43	T520X477M006A(1)E010	296	10	10	5000	
	470 470	X/7343-43 X/7343-43	T520X477M006A(1)E018	296 296	10	18 35	3700	
	470	X/7343-43 X/7343-43	T520X477M006A(1)E035 T520X477M006A(1)E040	296	10	40	2700 2500	
	770	,41040-43	. 520/17 / WISSON (1)E040	230	.0	70	2000	

⁽¹⁾ To complete KEMET part number, insert letter designation for lead material from page 50. Higher voltage ratings and tighter tolerance product may be substituted with the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

*100kHz to 500kHz, 45° C

⁽¹⁾ To complete KEMET part number, insert letter designation for lead material from page 50. Higher voltage ratings and tighter tolerance product may be substituted with the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.

CONDUCTIVE POLYMER CHIP CAPACITORS **KEN** T520 Series - KO Cap



T520 RATINGS & PART NUMBER REFERENCE

33 175828-12 TS20T339M00084(1)E020 26 8 8 70 1100 33 83528-20 TS20B339M00084(1)E025 28 8 80 1100 33 83528-20 TS20B339M00084(1)E025 28 15 38 1000 33 83528-20 TS20B339M00084(1)E025 28 8 70 1300 33 83528-20 TS20B339M00084(1)E025 28 8 70 1300 34 847 83528-20 TS20B339M00084(1)E020 26 8 70 1400 47 83528-20 TS20B339M00084(1)E020 26 8 70 1400 47 83528-20 TS20B339M00084(1)E020 26 8 70 1400 48 47 83528-20 TS20B479M0084(1)E020 28 8 70 1400 48 2 66032-28 TS20C829M0084(1)E020 28 8 66 1600 58 2 66032-28 TS20C829M0084(1)E025 22 8 6 66 1600 59 077343-31 TS20D1579M0084(1)E025 20 10 25 3000 59 077343-31 TS20D1579M0084(1)E020 20 10 25 3000 50 077343-31 TS20D1579M0084(1)E020 20 10 25 3000 50 077343-31 TS20D1579M0084(1)E020 20 10 20 40 2240 50 077343-31 TS20D1579M0084(1)E020 20 10 25 3000 50 077343-31 TS20D1579M0084(1)E020 20 10 20 20 2240 50 077343-31 TS20D1579M0084(1)E020 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Rated Voltage (V)	Rated Capaci- tance (µF)	Case Code/ Case Size	KEMET Part Number	DC Leakage µA @ 20°C max/ 5min	DF% @ 20°C 120 Hz Max	ESR mΩ @ 20°C 100 kHz Max	Maximum allowable ripple current (mArms) 100kHz*	MSL Reflow Temp ≤ 260°C
33 173528-12 T320T339M00084(1)E025 28 8 26 2300 33 8/3528-20 T320B339M00084(1)E035 28 15 36 1900 33 8/3528-20 T320B339M00084(1)E035 28 8 70 1300 33 8/3528-20 T320B339M00084(1)E040 28 8 40 1900 33 8/3528-20 T320B339M00084(1)E040 28 8 40 1900 34 78/3528-20 T320B339M00084(1)E040 28 8 70 1300 35 8/3528-20 T320B339M0084(1)E070 26 8 70 1400 47 8/3528-20 T320B476M0084(1)E055 38 8 75 1300 82 C/6032-28 T320C829M0084(1)E045 82 8 66 1600 82 C/6032-28 T320C829M0084(1)E045 82 8 66 1600 150 0/7343-31 T320D157M0084(1)E035 20 10 25 3000 150 0/7343-31 T320D157M0084(1)E045 20 10 25 3000 150 0/7343-31 T320D157M0084(1)E040 120 10 40 2400 150 0/7343-31 T320D157M0084(1)E040 120 10 40 2200 150 0/7343-31 T320D157M0084(1)E040 120 10 55 2000 150 0/7343-31 T320D157M0084(1)E040 120 10 40 2200 150 0/7343-31 T320D157M0084(1)E040 10 8 80 1200 151 0/7343-31 T320D157M0084(1)E040 10 8 80 1200 152 0/7343-31 T320D157M0084(1)E040 10 8 80 1200 153 0/7343-31 T320D157M0084(1)E040 33 8 40 1600 153 0/7343-31 T320D157M0084(1)E040 33 8 40 1600 154 0/7343-31 T320D157M0084(1)E040 33 8 40 1600 155 0/7343-31 T320D157M0084(1)E040 33 8 40 1600 156 0/7343-31 T320D3399M0104(1)E040 33 8 40 1600 157 0/7343-31 T320D3399M0104(1)E040 33 8 70 1400 157 0/7343-31 T320D3399M0104(1)E050 47 8 70 1300 157 0/7343-31 T320D3457M0104(1)E050 47 8 70 1300 157 0/7343-31 T320D3457M0104(1)E050 68 10 40 2000 150 0/7343-31 T320D3457M0104(1)E050		33	T/3528-12	T520T336M008A(1)E070	26	8	70	1200	
33 8/3582-90 T520B339M00B4(1)E090 29 8 40 1800 33 8/3582-90 T520B339M00B4(1)E070 26 8 70 1400 33 8/3582-90 T520B339M00B4(1)E070 26 8 70 1400 33 8/3582-90 T520B339M00B4(1)E070 26 8 70 1400 34 8/3582-90 T520B479M00B4(1)E070 38 8 70 1300 82 C/6032-28 T520C829M00B4(1)E075 38 8 70 1300 82 C/6032-28 T520C829M00B4(1)E075 38 8 70 1300 82 C/6032-28 T520C829M00B4(1)E075 38 8 66 1600 83 C/6032-28 T520C829M00B4(1)E045 82 8 66 1600 84 C/6032-28 T520C829M00B4(1)E045 10 25 3000 85 C/6032-28 T520C829M00B4(1)E045 10 25 3000 86 C/6032-28 T520C829M00B4(1)E045 10 10 25 3000 87:343-31 T520D157M00B4(1)E045 10 10 25 3000 87:343-31 T520D157M00B4(1)E045 10 10 55 2000 87:343-31 T520D157M00B4(1)E045 10 10 55 2000 87:343-31 T520D157M00B4(1)E045 10 10 55 2000 87:343-31 T520D157M00B4(1)E080 10 8 80 1200 87:343-31 T520D157M00B4(1)E080 10 8 80 1200 87:343-31 T520A158M010A(1)E080 10 8 80 1200 87:343-31 T520A158M010A(1)E080 10 8 80 1200 87:343-31 T520A158M010A(1)E080 12 2 8 80 1200 87:343-31 T520A158M010A(1)E080 12 2 8 80 1200 87:352-81 T520A358M010A(1)E040 33 8 70 1200 87:352-81 T520A358M010A(1)E040 33 8 70 1200 87:352-81 T520A358M010A(1)E053 33 8 70 1200 87:352-81 T520A358M010A(1)E053 33 8 8 00 1100 87:352-81 T520A358M010A(1)E053 33 8 8 80 1100 87:352-90 T520B338M010A(1)E070 33 8 70 1400 87:352-90 T520B3476M010A(1)E070 47 8 70 1300 88 W7734-31 T520U458M010A(1)E070 47 8 70 1300 89 W7734-31 T520U458M010A(1)E070 47 8 70 1300 80 W7734-31 T520U458M010A(1)E070 40 8 8 5 10 00 10 00 00 00 00 00 00 00 00 00 00		33	T/3528-12		26	8	80	1100	
8 8/8528-20 T520B336M00084(1)E070 26 8 70 1300 33 U6032-15 T520U336M008A(1)E070 26 8 70 1300 47 B5328-20 T520B336M0008A(1)E070 28 8 70 1400 47 B5328-20 T520B356M008A(1)E070 38 8 35 1900 48 C56032-28 T520C826M008A(1)E075 22 8 8 66 1600 48 C6032-28 T520C826M008A(1)E075 22 8 8 66 1600 50 C7343-31 T520D157M008A(1)E075 22 8 8 66 1600 50 C7343-31 T520D157M008A(1)E075 20 10 40 2400 5150 C7343-31 T520D157M008A(1)E075 20 10 55 2000 50 C7343-31 T520D157M008A(1)E075 20 10 40 2200 5150 C7343-31 T520D157M008A(1)E075 20 10 55 2000 50 C7343-31 T520D157M008A(1)E080 10 5 8 80 1200 5150 C7343-31 T520D157M008A(1)E080 10 8 80 1200 5150 C7343-31 T520T336M010A(1)E080 13 8 70 1200 5150 C7343-31 T520T336M010A(1)E080 13 8 70 1200 5150 C7343-31 T520T336M010A(1)E080 13 8 70 1200 5150 C7343-31 T520D336M010A(1)E080 13 8 70 1200 5150 C7343-31 T520D336M010A(1)E080 13 8 70 1300 5150 C7343-31 T520D336M010A(1)E080 13 8 70 1400 5150 C7343-31 T520D336M010A(1)E070 33 8 70 1400 5150 C7343-31 T520D336M010A(1)E070 33 8 70 1400 5150 C7343-31 T520D336M010A(1)E070 37 8 70 1300 5150 C7343-31 T520D368M010A(1)E070 47 8 70 1300 5150 C7343-31 T520D368M010A(1)E070 47 8 70 1300 5150 C7343-31 T520D368M010A(1)E070 47 8 70 1300 5150 C7343-31 T520D468M010A(1)E070 47 8 70 1300 5150 C7343-31 T520D468M010A(1)E070 58 8 10 40 10 10 10 10 10 10 10 10 10 10 10 10 10		33	B/3528-20	T520B336M008A(1)E025	26	8	25	2300	
8 47 B3528-20 T520B336M00B4(1)E070 26 8 8 70 1300 3 URG032-16 T520B3476M00B4(1)E035 38 8 70 1300 8 C C6032-28 T520B3476M00B4(1)E035 38 8 70 1300 8 C C6032-28 T520C826M00B4(1)E035 28 8 66 1600 8 C C6032-28 T520C826M00B4(1)E035 28 8 66 1600 150 07343-31 T520D157M00B4(1)E035 12 10 25 3000 150 07343-31 T520D157M00B4(1)E035 12 10 25 3000 150 07343-31 T520D157M00B4(1)E045 12 10 40 2400 150 07343-31 T520D157M00B4(1)E045 12 10 55 2000 150 07343-31 T520D157M00B4(1)E045 12 10 55 2000 150 07343-31 T520D157M00B4(1)E045 12 10 55 2000 150 07343-31 T520D157M00B4(1)E040 12 10 40 2400 150 07343-31 T520D157M00B4(1)E040 12 10 55 2000 150 07343-31 T520D157M00B4(1)E040 12 10 55 2000 150 07343-31 T520D157M00B4(1)E055 12 10 55 8 80 1200 150 07343-31 T520D157M00B4(1)E040 12 29 10 40 2200 150 07343-31 T520D157M00B4(1)E040 12 29 10 40 2200 150 07343-31 T520D157M00B4(1)E040 12 29 10 40 2200 150 07343-31 T520D157M00B4(1)E040 33 8 80 1200 153 073628-12 T520D157M00B4(1)E040 33 8 40 1200 153 073628-12 T520D157M00B4(1)E040 33 8 40 1600 33 073628-12 T520D338M010A(1)E040 33 8 40 1600 33 073628-20 T520B338M010A(1)E040 33 8 8 00 1100 33 073628-20 T520B338M010A(1)E040 33 8 8 40 1600 33 073628-20 T520B338M010A(1)E040 33 8 8 40 1600 33 073628-20 T520B338M010A(1)E040 33 8 70 1300 47 073638-12 T520B338M010A(1)E040 33 8 70 1300 47 073638-12 T520B338M010A(1)E040 33 8 70 1300 47 073638-13 T520D458M010A(1)E040 8 8 9 10 10 10 10 10 10 10 10 10 10 10 10 10		33	B/3528-20	T520B336M008A(1)E035	26	15	35	1900	
8		33	B/3528-20	T520B336M008A(1)E040	26	8	40	1800	
8 47 B-3528-20 T520B-37800084(1)E035 38 8 35 1900 82 CF0032-28 T520C289M0084(1)E025 82 8 66 1600 150 07343-31 T520D167M0084(1)E025 82 8 66 1600 150 07343-31 T520D167M0084(1)E025 120 10 25 3000 150 07343-31 T520D167M0084(1)E025 120 10 25 3000 150 07343-31 T520D167M0084(1)E025 120 10 25 3000 150 07343-31 T520D167M0084(1)E035 120 10 55 3000 150 07343-31 T520D167M0084(1)E035 120 10 55 2000 150 07343-31 T520D167M0084(1)E036 120 10 50 200 150 07343-31 T520D167M0084(1)E036 120 10 50 80 1200 151 07343-19 T520167M0084(1)E036 120 10 50 80 1200 151 07343-19 T520167M0084(1)E036 120 10 8 80 1200 151 07343-19 T520A168M0104(1)E036 12 8 80 1200 151 07343-19 T520A168M0104(1)E036 12 8 80 1200 151 07343-19 T520A168M0104(1)E036 12 8 80 1200 133 T76528-12 T520T388M0104(1)E036 12 8 80 1100 133 T76528-12 T520T388M0104(1)E036 12 8 80 1100 133 B5328-20 T520T388M0104(1)E035 13 8 70 1200 133 B5328-20 T520B388M0104(1)E035 13 8 70 1200 133 B5328-20 T520B388M0104(1)E036 13 8 70 1300 133 B5328-20 T520B388M0104(1)E036 13 8 70 1300 133 B5328-20 T520B388M0104(1)E036 13 8 70 1300 1300 130 125 D520B388M0104(1)E036 147 B5328-20 T520B388M0104(1)E037 13 8 70 1300 1300 147 B5328-20 T520B388M0104(1)E036 147 8 55 1900 1400 1400 1400 1400 1400 1400 1400		33							
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22		10	A/3216-18	T520A106M010A(1)E080	10	8	80	1200	
33		15	A/3216-18	T520A156M010A(1)E080	15	8	80	1200	
33 T/3528-12 T520T336M010A(1)E070 33 8 8 00 1100 33 T3528-10 T520B336M010A(1)E0505 33 10 25 2300 33 B/3528-20 T520B336M010A(1)E055 33 10 25 2300 33 B/3528-20 T520B336M010A(1)E0505 33 8 40 1800 33 B/3528-20 T520B336M010A(1)E070 33 8 70 1300 33 B/3528-20 T520B336M010A(1)E070 33 8 70 1300 47 B/3528-20 T520B336M010A(1)E070 33 8 70 1400 47 B/3528-20 T520B336M010A(1)E070 47 8 35 1990 47 B/3528-20 T520B336M010A(1)E070 47 8 70 1300 47 B/3528-20 T520B476M010A(1)E070 47 8 70 1300 47 U/6032-8 T520U476M010A(1)E055 47 8 55 1600 47 C/6032-28 T520U476M010A(1)E055 47 8 55 1600 68 W/7343-15 T520W868M010A(1)E055 68 8 55 1600 68 W/7343-16 T520W868M010A(1)E055 68 8 55 1600 68 W/7343-16 T520W686M010A(1)E055 68 10 25 2200 68 W/7343-19 T520W686M010A(1)E046 68 10 40 1700 68 C/6032-28 T520C368M010A(1)E045 68 10 25 2700 68 V/7343-19 T520W686M010A(1)E045 68 10 25 2700 68 V/7343-19 T520W686M010A(1)E045 68 10 40 2200 68 W/7343-19 T520W686M010A(1)E045 100 8 45 1900 68 D/7343-31 T520D686M010A(1)E045 100 8 45 1900 68 D/7343-31 T520D686M010A(1)E045 100 8 45 1900 68 D/7343-31 T520D107M010A(1)E045 100 8 45 1900 68 D/7343-31 T520D107M010A(1)E045 100 10 50 1900 68 D/7343-31 T520D107M010A(1)E045 100 10 40 1700 68 D/7343-31 T520D107M010A(1)E045 100 10 55 2000 68 D/7343-31 T520D107M010A(1)E045 100 10 55 2000 68 D/7343-31 T520D107M010A(1)E045 100 10 45 2000 68 D/7343-31 T520D107M010A(1)E045 100 10 40 2000 68 D/7343-31 T520D107M010A(1)E045 100 10 55 2000 68 D/7343-31 T520D107M010A(1)E045 100 10 10 55 2000 68 D/7343-31 T520D107M010A		22	A/3216-18	T520A226M010A(1)E080	22	8	80	1200	
33		33	T/3528-12	T520T336M010A(1)E040	33	8	40	1600	
33 B/3528-20 T520B336M010A(1)E025 33 10 25 2300 B/3528-20 T520B336M010A(1)E035 33 8 35 1900 B/3528-20 T520B336M010A(1)E035 33 8 40 1800 A/3528-20 T520B336M010A(1)E070 33 8 40 1800 A/3528-20 T520B336M010A(1)E070 33 8 70 1400 A/3528-20 T520B336M010A(1)E070 A/7 8 3528-20 T520B476M010A(1)E070 A/7 8 3528-20 T520B476M010A(1)E035 A/7 8 35 1900 A/7 8 19328-20 T520B476M010A(1)E035 A/7 8 70 1300 A/7 U/6032-15 T520U4376M010A(1)E035 A/7 8 70 1300 A/7 U/6032-15 T520U4376M010A(1)E035 A/7 8 100 1300 A/7 U/6032-15 T520U4376M010A(1)E035 A/7 8 100 1300 A/7 U/6032-15 T520U436M010A(1)E035 A/7 8 100 1300 A/7 U/6032-15 T520U436M010A(1)E045 A/7 8 100 1300 A/7 U/7034-31 T520W686M010A(1)E045 A/7 8 100 1700 A/7 8 100 1700 A/7 8 100 A/7 8 A/7 8 100 A/7 8 A/		33	T/3528-12	T520T336M010A(1)E070			70	1200	
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10		68	C/6032-28	T520C686M010A(1)E045	68	8	45	1900	
68 V/7343-19 T520V686M010A(1)E045 68 10 45 2000 68 V/7343-19 T520V686M010A(1)E060 68 10 60 1800 68 V/7343-31 T520V686M010A(1)E060 68 10 100 1400 100 C/6032-28 T520C107M010A(1)E025 100 8 25 2600 100 C/6032-28 T520C107M010A(1)E045 100 8 45 1900 100 L/6032-20 T520L107M010A(1)E025 100 10 25 2400 100 U/6032-21 T520V107M010A(1)E025 100 10 25 2400 100 V/7343-19 T520V107M010A(1)E045 100 10 40 1700 100 V/7343-19 T520V107M010A(1)E045 100 10 40 1700 100 V/7343-19 T520V107M010A(1)E045 100 10 45 2000 100 V/7343-19 T520V107M010A(1)E055 100 10 25 2700 100 V/7343-19 T520V107M010A(1)E050 100 10 45 2000 100 V/7343-19 T520V107M010A(1)E050 100 10 45 2000 100 D/7343-31 T520D107M010A(1)E050 100 10 50 1900 100 D/7343-31 T520D107M010A(1)E055 100 10 55 2000 100 D/7343-31 T520D107M010A(1)E055 100 10 80 1700 150 V/7343-19 T520V157M010A(1)E055 150 10 18 3500 150 V/7343-19 T520V157M010A(1)E055 150 10 18 3200 150 V/7343-19 T520V157M010A(1)E055 150 10 18 3200 150 V/7343-19 T520V157M010A(1)E055 150 10 18 3200 150 V/7343-19 T520V157M010A(1)E055 150 10 25 2700 150 V/7343-19 T520V157M010A(1)E055 150 10 25 2700 150 V/7343-31 T520D157M010A(1)E018 150 10 18 3200 150 D7343-31 T520D157M010A(1)E018 150 10 18 3200 150 D7343-31 T520D157M010A(1)E055 150 10 25 3000 150 D7343-31 T520D157M010A(1)E040 150 10 40 2200 150 D7343-31 T520D157M010A(1)E040 150 10 40 2400 150 D7343-31 T520D157M010A(1)E045 150 10 45 2000 150 V/7343-40 T520V157M010A(1)E045 150 10 45 2000 150 D7343-31 T520D157M010A(1)E045 150 10 45 2000 150 D7343-31 T520D157M010A(1)E045 150 10 45 2000 150 D7343-31 T520D157M010A(1)E045 20 10 45 2000 150 D7343-31 T520D157M010A(1)E040 150 10 18 3500 150 D7343-31 T520D157M010A(1)E040 150 10 40 2400 150 D7343-31 T520D157M010A(1)E045 20 10 45 2000 150 D7343-31 T520D157M010A(1)E040 150 10 15 4000 150 D7343-31 T520D157M010A(1)E040 150 10 40 2400 150 D7343-31 T520D157M010A(1)E040 150 10 55 2000 150 D7343-31 T520D157M010A(1)E040 20 10 40 2500 150 D7343-31 T520D157M010A(1)E045 20 10 45 2000 150 D7343-31 T520D227M010A(1)E045 20 10 40 2500 150 D7343-31 T520D227M010		68	V/7343-19	T520V686M010A(1)E025	68	10	25	2700	
10		68	V/7343-19	T520V686M010A(1)E040	68	10	40	2200	
68 V/7343-19 T520V686M010A(1)E100 68 10 100 1400 68 D/7343-31 T520D686M010A(1)E100 68 10 100 1500 100 C/6032-28 T520C107M010A(1)E025 100 8 25 2600 100 L/6032-20 T520L107M010A(1)E045 100 10 25 2400 100 L/6032-20 T520L107M010A(1)E045 100 10 25 2400 100 W/7343-15 T520W107M010A(1)E045 100 10 40 1700 100 V/7343-19 T520V107M010A(1)E045 100 10 18 3200 100 V/7343-19 T520V107M010A(1)E045 100 10 45 2000 100 V/7343-19 T520V107M010A(1)E045 100 10 45 2000 100 V/7343-19 T520V107M010A(1)E045 100 10 18 3500 100 D/7343-31 T520D107M010A(1)E055 100 10 50 1900 100 D/7343-31 T520D107M010A(1)E055 100 10 55 2000 100 D/7343-31 T520D107M010A(1)E055 100 10 80 1700 150 C/6032-28 T520C157M010A(1)E055 150 8 55 1700 150 V/7343-19 T520V157M010A(1)E055 150 8 55 1700 150 V/7343-19 T520V157M010A(1)E055 150 10 18 3200 150 V/7343-19 T520V157M010A(1)E055 150 10 18 3200 150 V/7343-31 T520D157M010A(1)E040 150 10 18 3200 150 V/7343-31 T520D157M010A(1)E040 150 10 40 2200 150 D/7343-31 T520D157M010A(1)E040 150 10 40 2200 150 D/7343-31 T520D157M010A(1)E055 150 10 25 2700 150 D/7343-31 T520D157M010A(1)E040 150 10 40 2200 150 D/7343-31 T520D157M010A(1)E055 150 10 15 3900 150 D/7343-31 T520D157M010A(1)E040 150 10 40 2200 150 D/7343-31 T520D157M010A(1)E040 150 10 40 2400 150 D/7343-31 T520D157M010A(1)E040 150 10 40 2400 150 D/7343-31 T520D157M010A(1)E045 150 10 15 3000 150 D/7343-31 T520D157M010A(1)E045 150 10 15 4000 150 V/7343-40 T520V157M010A(1)E045 220 10 45 2000 150 V/7343-40 T520V157M010A(1)E045 220 10 45 2000 150 D/7343-31 T520D157M010A(1)E045 220 10 40 2500 150 D/7343-31 T520D227M010A(1)E045 220 10 40 2500 150 D/7343-31 T520D227M010A(1)E045 220 10 40 2500 1		68	V/7343-19	T520V686M010A(1)E045	68	10	45	2000	
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220 D/7343-31 T520D227M010A(1)E018 220 10 18 3500 220 D/7343-31 T520D227M010A(1)E025 220 10 25 3000 220 D/7343-31 T520D227M010A(1)E040 220 10 40 2400 330 Y/7343-40 T520Y337M010A(1)E015 330 10 15 4000 330 Y/7343-40 T520Y337M010A(1)E035 330 10 35 2600 330 X/7343-43 T520X337M010A(1)E010 330 10 10 5000 330 X/7343-43 T520X337M010A(1)E025 330 10 25 3100		220	V/7343-19	T520V227M010A(1) E045	220	10	45	2000	
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220 D/7343-31 T520D227M010A(1)E040 220 10 40 2400 330 Y/7343-40 T520Y337M010A(1)E015 330 10 15 4000 330 Y/7343-40 T520Y337M010A(1)E035 330 10 35 2600 330 X/7343-43 T520X337M010A(1)E010 330 10 10 5000 330 X/7343-43 T520X337M010A(1)E025 330 10 25 3100									
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330 X/7343-43 T520X337M010A(1)E040 330 10 40 2500									

*100kHz	to	500kHz,	45°	С

⁽¹⁾ To complete KEMET part number, insert letter designation for lead material from page 50. Higher voltage ratings and tighter tolerance product may be substituted with the same size at KEMET's option.Voltage substitutions will be marked with the higher voltage rating.

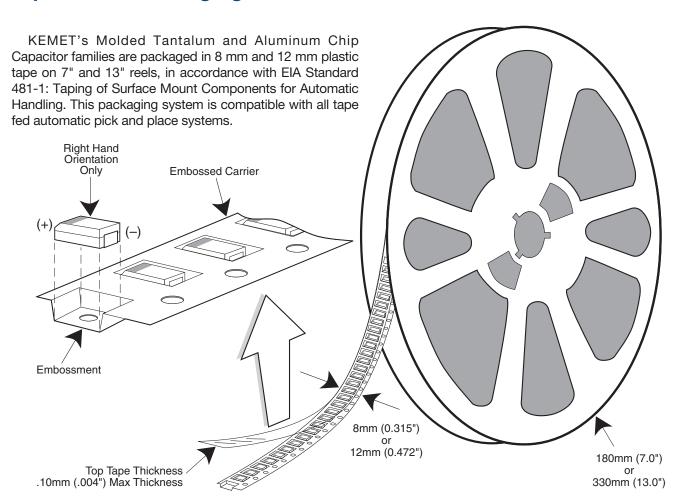
Rated Voltage (V)	Rated Capaci- tance (µF)	Case Code/ Case Size	KEMET Part Number	DC Leakage μA @ 20°C max/ 5min	DF% @ 20°C 120 Hz Max	ESR mΩ @ 20°C 100 kHz Max	Maximum allowable ripple current (mArms) 100kHz*	MSL Reflow Temp ≤ 260°C
12.5	10	T/3528-12	T520T106M12RA(1)E150	13	8	150	800	
12.5	15	T/3528-12	T520T156M12RA(1)E080	19	8	80	1100	3
	10	B/3528-20	T520B106M016A(1)E100	16	8	100	1100	
	22	C/6032-28	T520C226M016A(1)E080	35	8	80	1400	
	33	W/7343-15	T520W336M016A(1)E045	53	10	60	1400	
16	33	V/7343-19	T520V336M016A(1)E045	53	10	45	2000	
10	33	V/7343-19	T520V336M016A(1)E060	53	10	60	1800	3
-	33	V/7343-19	T520V336M016A(1)E070	53	10	70	1600	
	47	W/7343-15	T520W476M016A(1)E045	75	10	45	1600	
	47	V/7343-19	T520V476M016A(1)E045	75	10	45	2000	
	47	V/7343-19	T520V476M016A(1)E070	76	10	70	1600	
	47	D/7343-31	T520D476M016A(1)E035	75	10	35	2500	
16	47	D/7343-31	T520D476M016A(1)E070	75	10	70	1800	3
10	68	D/7343-31	T520D686M016A(1)E050	109	10	50	2100	3
	150	X/7343-43	T520X157M016A(1)E040	240	10	40	2500	
	22	V/7343-19	T520V226M020A(1)E040	44	10	40	2200	
	22	V/7343-19	T520V226M020A(1)E045	44	10	45	2000	
20	22	V/7343-19	T520V226M020A(1)E090	44	10	90	1400	3
	15	V/7343-19	T520V156M025A(1)E090	38	10	90	1400	
25	15	D/7343-31	T520D156M025A(1)E060	38	10	60	1900	3
20	25 15 D/7343-31 T520D156N		T520D156M025A(1)E080	38	10	80	1700	3

⁽¹⁾ To complete KEMET part number, insert letter designation for lead material from page 50. Higher voltage ratings and tighter tolerance product may be substituted with the same size at KEMET's option. Voltage substitutions will be marked with the higher voltage rating.



Packaging Information

Tape & Reel Packaging



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

QUANTITIES PACKAGED PER REEL

Case	Code	Tape	7" Reel*	13" Reel
KEMET	EIA	Width-mm	i Keei	13 1/661
R	2012 12	8	2,500	10,000
I	3216 10	8	3,000	12,000
S	3216 12	8	2,500	10,000
Т	3528 12	8	2,500	10,000
М	3528 15	8	2,000	8,000
U	6032 15	12	1,000	5,000
L	6032 19	12	1,000	5,000
W	7343 15	12	1,000	3,000
Z	7343 17	12	1,000	3,000
V	7343 20	12	1,000	3,000
Α	3216 18	8	2,000	9,000
В	3528 21	8	2,000	8,000
С	6032 28	12	500	3,000
D	7343 31	12	500	2,500
Y	7343 40	12	500	2,000
Х	7343 43	12	500	2,000
E	7260 38	12	500	2,000

^{*} No c-spec required for 7" reel packaging. C-7280 required for 13" reel packaging.



TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS

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 Newton to 1.0 Newton (10g to 100g) 12 mm 0.1 Newton to 1.3 Newton (10g to 130g)

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. Reel Sizes: Molded tantalum capacitors are available on either 180 mm (7") reels (standard) or 330 mm (13") reels (with C-7280). Note that 13" reels are preferred.
- **4. Labeling:** Bar code labeling (standard or custom) shall be on the side of the reel opposite the sprocket holes. Refer to EIA-556.

Embossed Carrier Tape Configuration: Figure 1

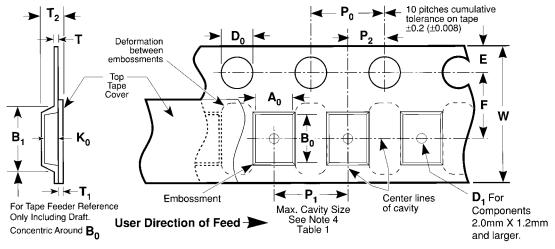


Table 1 — EMBOSSED TAPE DIMENSIONS (Metric will govern)

	Table 1 — EMBOSSED TATE DIMENSIONS (Wettle will govern)											
			Constant	Dimensions –	- Millimeters (I	nches)						
Tape Size	$\mathbf{D}_{\scriptscriptstyle{0}}$		E	P _o	P_{2}	T Max	T₁ Max					
8 mm and	1.5 +0.10 -0	I	5 ±0.10	4.0 ±0.10	2.0 ±0.05	0.600	0.100					
12 mm	(0.059 +0.004, -0.0) (0.069 ±0.004)		(0.157 ±0.004)	(0.079 ±0.002)	(0.024)	(0.004)						
			Variable	Dimensions —	Millimeters (Ir	ches)						
Tape Size	Pitch	B, Max	D₁ Min.	F	P ₁	R Min.	T ₂ Max	W	A ₀ B ₀ K ₀			
		Note 1	Note 2			Note 3			Note 4			
8 mm	Single (4 mm)	4.4	1.0	3.5 ±0.05	4.0 ±0.10	25.0	2.5	8.0 ±0.30				
	,	(0.173)	(0.039)	(0.138 ±0.002)	(0.157 ±0.004)	(0.984)	(0.098)	(.315 ±0.012)				
12 mm	Double (8 mm)	8.2 (0.323)	1.5 (0.059)	5.5 ±0.05 (0.217 ±0.002)	8.0 ±0.10 (0.315 ±0.004)	30.0 (1.181)	4.6 (0.181)	12.0 ±0.30 (0.472 ±0.012)				

NOTES

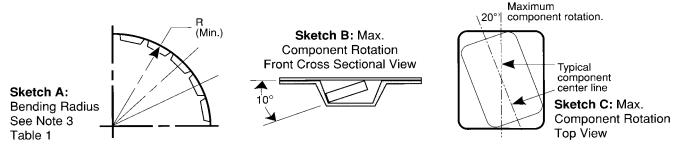
- 1. B1 dimension is a reference dimension for tape feeder clearance only.
- 2. The embossment hole location shall be measured from the sprocket hole controlling the location of the embossment. Dimensions of embossment location and hole location shall be applied independent of each other.
- 3. Tape with components shall pass around radius "R" without damage (see sketch A). The minimum trailer length (Fig. 2) may require additional length to provide R min. for 12 mm embossed tape for reels with hub diameters approaching N min. (Table 2)
- 4. The cavity defined by A₀, B₀, and K₀ shall be configured to surround the part with sufficient clearance such that the chip does not protrude beyond the sealing plane of the cover tape, the chip can be removed from the cavity in a vertical direction without mechanical restriction, rotation of the chip is limited to 20 degrees maximum in all 3 planes, and lateral movement of the chip is restricted to 0.5 mm maximum in the pocket (not applicable to vertical clearance.)

TANTALUM, CERAMIC AND ALUMINUM CHIP CAPACITORS

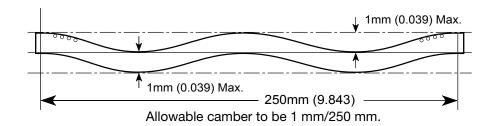


Packaging Information

Embossed Carrier Tape Configuration (cont.)



Sketch D: Tape Camber (Top View)



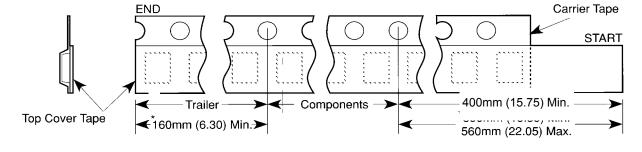
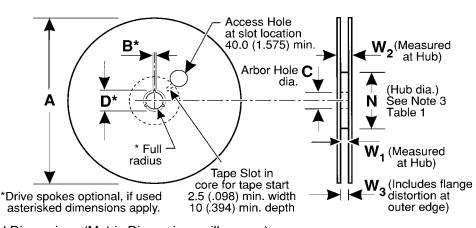


Figure 2: Tape Leader & Trailer Dimensions (Metric Dimensions Will Govern)



User Direction of Feed

Figure 3: Reel Dimensions (Metric Dimensions will govern)

Table 2 – REEL DIMENSIONS (Metric will govern)

					(90.0,		
Tape Size	A Max	B* Min	С	D* Min	N Min	W ₁	W ₂ Max	W ₃
8 mm	330.0 (12.992)	1.5 (0.059)	13.0 ± 0.20 (0.512 ± 0.008)	20.2 (0.795)	50.0 (1.969) See Note 3	8.4 +1.5, -0.0 (0.331 +0.059, -0.0)	14.4 (0.567)	7.9 Min (0.311) 10.9 Max (0.429)
12 mm	330.0 (12.992)	1.5 (0.059)	13.0 ± 0.20 (0.512 ± 0.008)	20.2 (0.795)	Table 1	12.4 +2.0, -0.0 (0.488 +0.078, -0.0)	18.4 (0.724)	11.9 Min (0.469) 15.4 Max (0.606)



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