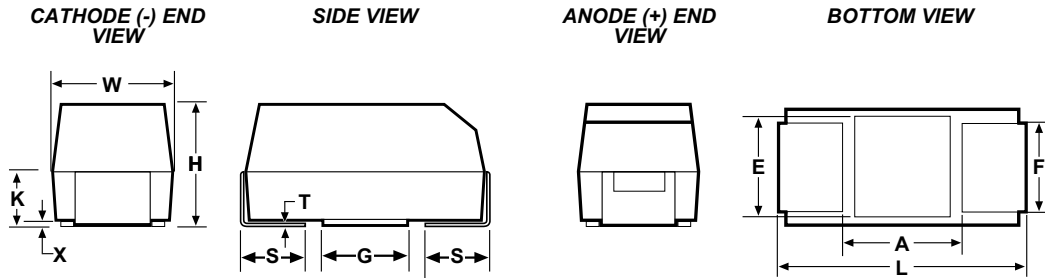


FEATURES

- Polymer Cathode Technology
- Low ESR
- High Frequency Cap Retention
- No-Ignition Failure Mode
- Use Up to 80% of Rated Voltage (20% Derating)
- Capacitance 15 to 1000 μ F (\pm 20%)
- Voltage 2V to 25V
- EIA Standard Case Sizes
- 100% Surge Current Tested

OUTLINE DRAWING

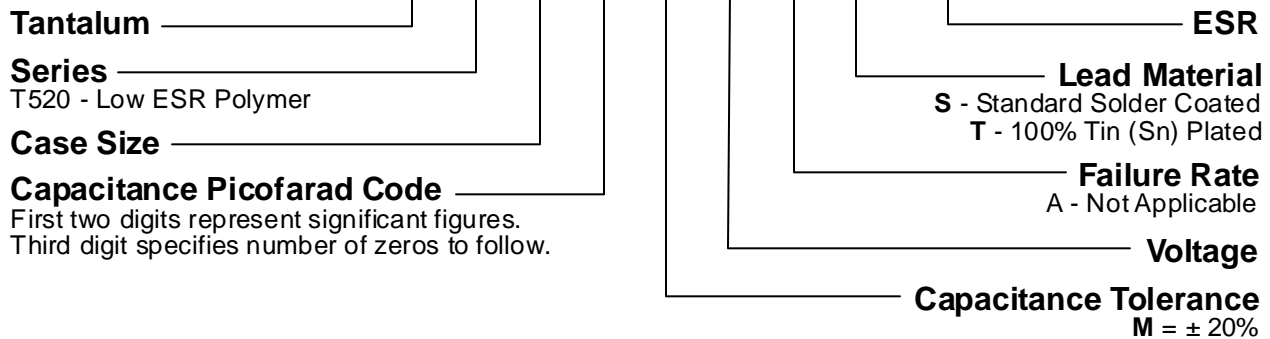


DIMENSIONS - MILLIMETERS

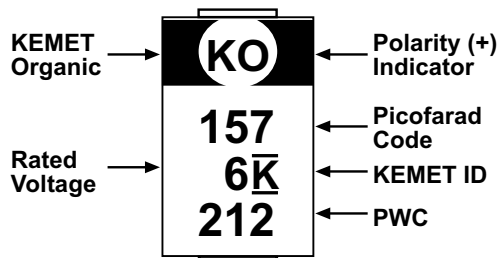
Case Size		L	W	H	K \pm 0.20	F \pm 0.1	S \pm 0.3	X(Ref)	T(Ref)	A(Min)	G(ref)	E(ref)
KEMET	EIA											
T	3528-12	3.5 \pm 0.2	2.8 \pm 0.2	1.2 max	0.3	2.2	0.8	0.05	0.13	1.1	1.8	2.2
B	3528-21	3.5 \pm 0.2	2.8 \pm 0.2	1.9 \pm 0.2	0.9	2.2	0.8	0.10 \pm 0.10	0.13	1.1	1.8	2.2
V	7343-20	7.3 \pm 0.3	4.3 \pm 0.3	1.9 max	0.9	2.4	1.3	0.05	0.13	3.8	3.5	3.5
D	7343-31	7.3 \pm 0.3	4.3 \pm 0.3	2.8 \pm 0.3	1.5	2.4	1.3	0.10 \pm 0.10	0.13	3.8	3.5	3.5
Y	7343-40	7.3 \pm 0.3	4.3 \pm 0.3	4.0 max	1.9	2.4	1.3	0.10 \pm 0.10	0.13	3.8	3.5	3.5
X	7343-43	7.3 \pm 0.3	4.3 \pm 0.3	4.0 \pm 0.3	2.3	2.4	1.3	0.10 \pm 0.10	0.13	3.8	3.5	3.5

T520 ORDERING INFORMATION

T 520 V 157 M 006 A S E015

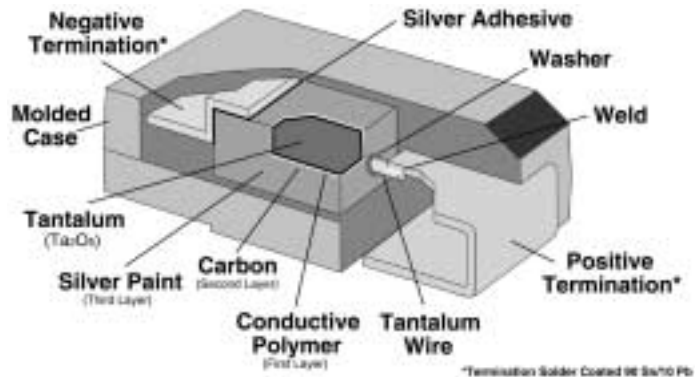


COMPONENT MARKING



212 = 12th week of 2002

T520 SERIES CONSTRUCTION



T520 RATINGS & PART NUMBER REFERENCE

Capacitance μ F	Case Size	KEMET Part Number	DC Leakage μ A @ 25°C Max	DF% @ 25°C 120 Hz Max	ESR mW @ 25°C 100 kHz Max	Ripple Current A rms @ 25°C, 100 kHz Max		
						25°C	85°C	105°C
2 Volt Rating @ +85°C (1.6 Volt Rating at 105°C)								
470.0	V	T520V477M002ASE040	94	10	40	1.8	1.6	0.7
2.5 Volt Rating @ 85°C (2.0 Volt Rating at 105°C)								
100.0	B	T520B107M2R5ASE040	25	8	40	1.5	1.3	0.6
100.0	B	T520B107M2R5ASE070	25	8	70	1.1	1.0	0.4
220.0	B	T520B227M2R5ASE070	55	8	70	1.1	1.0	0.4
220.0	V	T520V227M2R5ASE009	55	10	9	3.7	3.4	1.5
220.0	V	T520V227M2R5ASE012	55	10	12	3.2	2.9	1.3
220.0	V	T520V227M2R5ASE015	55	10	15	2.9	2.6	1.2
220.0	V	T520V227M2R5ASE025	55	10	25	2.2	2.0	0.9
220.0	V	T520V227M2R5ASE045	55	10	45	1.7	1.5	0.7
330.0	V	T520V337M2R5ASE009	99	10	9	3.7	3.4	1.5
330.0	V	T520V337M2R5ASE015	83	10	15	2.9	2.6	1.2
330.0	V	T520V337M2R5ASE025	83	10	25	2.2	2.0	0.9
470.0	V	T520V477M2R5ASE009	118	10	9	3.7	3.4	1.5
470.0	V	T520V477M2R5ASE012	118	10	12	3.2	2.9	1.3
470.0	V	T520V477M2R5ASE015	118	10	15	2.9	2.6	1.2
470.0	D	T520D477M2R5ASE009	118	10	9	4.1	3.7	1.6
680.0	D	T520D687M2R5ASE015	170	10	15	3.2	2.8	1.3
680.0	D	T520D687M2R5ASE040	170	10	40	1.9	1.7	0.8
680.0	Y	T520Y687M2R5ATE025	170	10	25	2.5	2.3	1.0
1000.0	Y	T520Y108M2R5ATE025	250	10	25	2.5	2.3	1.0
3 Volt Rating at 85°C (2.4 Volt Rating at 105°C)								
100.0	B	T520B107M003ASE040	30	8	40	1.5	1.3	0.6
100.0	B	T520B107M003ASE070	30	8	70	1.1	1.0	0.4
150.0	B	T520B157M003ASE040	45	8	40	1.5	1.3	0.6
150.0	B	T520B157M003ASE070	45	8	70	1.1	1.0	0.4
330.0	V	T520V337M003ASE012	99	10	12	3.2	2.9	1.3
330.0	V	T520V337M003ASE015	99	10	15	2.9	2.6	1.2
330.0	V	T520V337M003ASE025	99	10	25	2.2	2.0	0.9
680.0	D	T520D687M003ASE015	204	10	15	3.2	2.8	1.3
680.0	D	T520D687M003ASE040	204	10	40	1.9	1.7	0.8
1000.0	X	T520X108M003ASE015	300	10	15	3.3	3.0	1.3
1000.0	X	T520X108M003ASE030	300	10	30	2.3	2.1	0.9
4 Volt Rating @ +85°C (3.3 Volt Rating at +105°C)								
15.0	T	T520T156M004ATE100	6	8	100	0.8	0.7	0.3
47.0	T	T520T476M004ATE070	19	8	70	1.0	0.9	0.4
68.0	B	T520B686M004ASE040	27	8	40	1.5	1.3	0.6
68.0	B	T520B686M004ASE070	27	8	70	1.1	1.0	0.4
100.0	B	T520B107M004ASE040	40	8	40	1.5	1.3	0.6
100.0	B	T520B107M004ASE070	40	8	70	1.1	1.0	0.4
150.0	B	T520B157M004ASE040	60	8	40	1.5	1.3	0.6
150.0	B	T520B157M004ASE070	60	8	70	1.1	1.0	0.4
150.0	V	T520V157M004ASE009	60	10	9	3.7	3.4	1.5
150.0	V	T520V157M004ASE012	60	10	12	3.2	2.9	1.3
150.0	V	T520V157M004ASE015	60	10	15	2.9	2.6	1.2
150.0	V	T520V157M004ASE025	60	10	25	2.2	2.0	0.9
220.0	V	T520V227M004ASE009	88	10	9	3.7	3.4	1.5
220.0	V	T520V227M004ASE012	88	10	12	3.2	2.9	1.3
220.0	V	T520V227M004ASE015	88	10	15	2.9	2.6	1.2
220.0	V	T520V227M004ASE025	88	10	25	2.2	2.0	0.9
220.0	V	T520V227M004ASE040	88	10	40	1.8	1.6	0.7
220.0	V	T520V227M004ASE045	88	10	45	1.7	1.5	0.7
220.0	D	T520D227M004ASE065	88	10	65	1.5	1.4	0.6
330.0	V	T520V337M004ASE009	132	10	9	3.7	3.4	1.5
330.0	V	T520V337M004ASE012	132	10	12	3.2	2.9	1.3
330.0	V	T520V337M004ASE025	132	10	25	2.2	2.0	0.9
330.0	V	T520V337M004ASE040	132	10	40	1.8	1.6	0.7
330.0	D	T520D337M004ASE009	132	10	9	4.1	3.7	1.6
330.0	D	T520D337M004ASE015	132	10	15	3.2	2.8	1.3
330.0	D	T520D337M004ASE040	132	10	40	1.9	1.7	0.8
330.0	D	T520D337M004ASE045	132	10	45	1.8	1.6	0.7
470.0	D	T520D477M004ASE012	188	10	12	3.5	3.2	1.4
470.0	D	T520D477M004ASE015	188	10	15	3.2	2.8	1.3
470.0	D	T520D477M004ASE018	188	10	18	2.9	2.6	1.2
470.0	D	T520D477M004ASE025	188	10	25	2.4	2.2	1.0
470.0	D	T520D477M004ASE040	188	10	40	1.9	1.7	0.8
680.0	Y	T520Y687M004ATE025	272	10	25	2.5	2.3	1.0
680.0	X	T520X687M004ASE015	272	10	15	3.3	3.0	1.3
680.0	X	T520X687M004ASE035	272	10	35	2.2	2.0	0.9

T520 RATINGS & PART NUMBER REFERENCE

Capacitance μ F	Case Size	KEMET Part Number	DC Leakage μ A @ 25°C Max	DF% @ 25°C 120 Hz Max	ESR mW @ 25°C 100 kHz Max	Ripple Current A rms @ 25°C, 100 kHz Max		
						25°C	85°C	105°C
6/6.3 Volt Rating @ +85°C (5 Volt Rating at +105°C)								
15.0	T	T520T156M006ASE100	9.5	8	100	0.8	0.7	0.3
33.0	B	T520B336M006ASE040	21	8	40	1.5	1.3	0.6
33.0	B	T520B336M006ASE070	21	8	70	1.1	1.0	0.4
47.0	B	T520B476M006ASE040	30	8	40	1.5	1.3	0.6
47.0	B	T520B476M006ASE070	30	8	70	1.1	1.0	0.4
68.0	B	T520B686M006ASE040	43	8	40	1.5	1.3	0.6
68.0	B	T520B686M006ASE070	43	8	70	1.1	1.0	0.4
100.0	B	T520B107M006ASE040	63	8	40	1.5	1.3	0.6
100.0	B	T520B107M006ASE070	63	8	70	1.1	1.0	0.4
100.0	V	T520V107M006ASE009	63	10	9	3.7	3.4	1.5
100.0	V	T520V107M006ASE012	63	10	12	3.2	2.9	1.3
150.0	V	T520V157M006ASE009	95	10	9	3.7	3.4	1.5
150.0	V	T520V157M006ASE012	95	10	12	3.2	2.9	1.3
150.0	V	T520V157M006ASE015	95	10	15	2.9	2.6	1.2
150.0	V	T520V157M006ASE025	95	10	25	2.2	2.0	0.9
150.0	V	T520V157M006ASE040	95	10	40	1.8	1.6	0.7
150.0	V	T520V157M006ASE045	95	10	45	1.7	1.5	0.7
150.0	D	T520D157M006ASE015	95	10	15	3.2	2.8	1.3
150.0	D	T520D157M006ASE025	95	10	25	2.4	2.2	1.0
150.0	D	T520D157M006ASE055	95	10	55	1.7	1.5	0.7
220.0	V	T520V227M006ASE009	139	10	9	3.7	3.4	1.5
220.0	V	T520V227M006ASE012	139	10	12	3.2	2.9	1.3
220.0	V	T520V227M006ASE015	139	10	15	2.9	2.6	1.2
220.0	V	T520V227M006ASE025	139	10	25	2.2	2.0	0.9
220.0	V	T520V227M006ASE040	139	10	40	1.8	1.6	0.7
220.0	D	T520D227M006ASE009	139	10	9	4.1	3.7	1.6
220.0	D	T520D227M006ASE015	139	10	15	3.2	2.8	1.3
220.0	D	T520D227M006ASE040	139	10	40	1.9	1.7	0.8
220.0	D	T520D227M006ASE050	139	10	50	1.7	1.6	0.7
330.0	V	T520V337M006ASE025	208	10	25	2.2	2.0	0.9
330.0	V	T520V337M006ASE040	208	10	40	1.8	1.6	0.7
330.0	D	T520D337M006ASE015	208	10	15	3.2	2.8	1.3
330.0	D	T520D337M006ASE025	208	10	25	2.4	2.2	1.0
330.0	D	T520D337M006ASE040	208	10	40	1.9	1.7	0.8
330.0	D	T520D337M006ASE045	208	10	45	1.8	1.6	0.7
330.0	Y	T520Y337M006ATE025	208	10	25	2.5	2.3	1.0
470.0	Y	T520Y477M006ATE025	296	10	25	2.5	2.3	1.0
470.0	X	T520X477M006ASE018	296	10	18	3.0	2.7	1.2
470.0	X	T520X477M006ASE035	296	10	35	2.2	2.0	0.9
470.0	X	T520X477M006ASE040	296	10	40	2.0	1.8	0.8
8 Volt Rating @ +85°C (6.4 Volt Rating at +105°C)								
33.0	B	T520B336M008ASE040	26	8	40	1.5	1.3	0.6
33.0	B	T520B336M008ASE070	27	8	70	1.1	1.0	0.4
150.0	D	T520D157M008ASE025	120	10	25	2.4	2.2	1.0
150.0	D	T520D157M008ASE040	120	10	40	1.9	1.7	0.8
150.0	D	T520D157M008ASE055	120	10	55	1.7	1.5	0.7
10 Volt Rating @ +85°C (8 Volt Rating at +105°C)								
33.0	B	T520B336M010ASE040	33	8	40	1.5	1.3	0.6
33.0	B	T520B336M010ASE070	33	8	70	1.1	1.0	0.4
68.0	V	T520V686M010ASE045	68	10	45	1.7	1.5	0.7
68.0	V	T520V686M010ASE060	68	10	60	1.4	1.3	0.6
100.0	V	T520V107M010ASE018	100	10	18	2.6	2.4	1.1
100.0	V	T520V107M010ASE025	100	10	25	2.2	2.0	0.9
100.0	V	T520V107M010ASE045	100	10	45	1.7	1.5	0.7
100.0	V	T520V107M010ASE050	100	10	50	1.6	1.4	0.6
100.0	D	T520D107M010ASE018	100	10	18	3.2	2.8	1.3
100.0	D	T520D107M010ASE055	100	10	55	1.7	1.5	0.7
100.0	D	T520D107M010ASE080	100	10	80	1.4	1.2	0.5
150.0	D	T520D157M010ASE025	150	10	25	2.4	2.2	1.0
150.0	D	T520D157M010ASE040	150	10	40	1.9	1.7	0.8
150.0	D	T520D157M010ASE055	150	10	55	1.7	1.5	0.7
220.0	D	T520D227M010ASE018	220	10	18	2.9	2.6	1.2
220.0	D	T520D227M010ASE025	220	10	25	2.4	2.2	1.0
220.0	D	T520D227M010ASE040	220	10	40	1.9	1.7	0.8
330.0	X	T520X337M010ASE025	330	10	25	2.6	2.3	1.0
330.0	X	T520X337M010ASE040	330	10	40	2.0	1.8	0.8
16 Volt Rating @ +85°C (12.8 Volt Rating at +105°C)								
33.0	V	T520V336M016ASE060	53	10	60	1.4	1.3	0.6
47.0	V	T520V476M016ASE070	76	10	70	1.3	1.2	0.5
47.0	D	T520D476M016ASE070	75	10	70	1.5	1.3	0.6
25 Volt Rating @ +85°C (20 Volt Rating at +105°C)								
15.0	D	T520D156M025ASE060	38	10	60	1.6	1.4	0.6
15.0	D	T520D156M025ASE080	38	10	80	1.4	1.2	0.5

Polymer Tantalum Surface Mount