

KEMET Conductive Polymer Chip Capacitors



RoHS Compliant This product is RoHS compliant.

T520 SERIES - 105°C LOW ESR, KO-CAP

KEMET has developed a new type of tantalum capacitor that replaces the solid manganese dioxide electrode with a solid conductive polymer. This product is named the KO-CAP for KEMET Organic Capacitor. The advantages of the polymer include very low ESR and elimination of the potentially catastrophic failure mode that may occur with standard tantalum capacitors in a high surge current application.

Features:

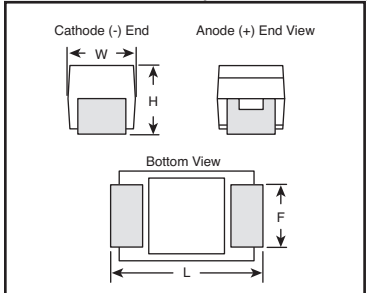
- Polymer Cathode Technology
- Low ESR
- High Frequency Cap Retention
- No-Ignition Failure Mode
- EIA Standard Case Sizes
- 100% Surge Current Tested
- 20% tolerance

Electrical Specifications:

- Operating Temperature Range: -55°C to +105°C
- Voltage listed is at 85°C, Derate 25% at 105°C
- Reverse Voltage Flating & Polarity: Polymer tantalum capacitors are polar devices and may be permanently damaged or destroyed if connected in the wrong polarity. The positive terminal is identified by a laser-marked stripe and may also include a beveled edge. These capacitors will withstand a small degree of transient voltage reversal for short periods. Please note that these parts may not be operated continuously in reverse.



RoHS Compliant



Case Size		Dimensions: mm			F
KEMET	EIA	L	W	H	±0.1
B	3528-21	3.5	2.8	1.9	2.2
V	7343-20	7.3	4.3	1.9	2.4
D	7343-31	7.3	4.3	2.8	2.4
X	7343-43	7.3	4.3	4.0	2.4
T	3528-12	3.5	2.8	1.2	2.2
V	7343-20	7.3	4.3	4.0	2.4

TANTALUM ENGINEERING KIT - 08, LOW ESR POLYMER

KEMET Part Number	Value (µF)	Voltage	ESR (mΩ)
T520D337M2R5ATE007	330.0	2.5	7
T530X158M2R5ATE005	1500.0	2.5	5
T520B686M004ATE070	68.0	4	70
T520V227M004ATE007	220.0	4	7
T520Y687M004ATE015	680.0	4	15
T520B336M006ATE070	33.0	6	70
T520T476M006ATE070	47.0	6	70
T520V157M006ATE015	150.0	6	15
T520A226M006ATE100	220.0	6	100
T520D337M006ATE040	330.0	6	40
T520X337M010ATE025	330.0	10	25
T520W476M016ATE045	47.0	16	45
T530Y687M004ATE005	680.0	4	5
A700D107M006ATE015	100.0	6	15
A700X157M006ATE010	150.0	6	10
A700V476M006ATE025	47.0	6	25



MOUSER STOCK NO.	Quantity Per Value	Price Each
80-TANKIT08-T520	10 pieces of each 16 Values	50.00

MOUSER STOCK NO.	KEMET Part Number	Volt (DC)	Value (µF)	Case Code	ESR mΩ @ 25°C 100 kHz Max	DC Leakage µA @ 25°C Max	Ripple Current (mA rms)	Price Each			Reel Qty.	Price Per Piece
								1	10	100		
80-T520T566M2R5ATE70	T520T566M2R5ATE070	2.5	56	T	70	14	1.0	1.15	1.01	.88	2500	.68
80-T520A686M2R5ATE80	T520A686M2R5ATE080	2.5	68	A	80	17	1.0	.72	.64	.55	2000	.30
80-T520B107M2R5	T520B107M2R5ATE040	2.5	100	B	40	25	1.5	1.30	.98	.78	2000	.39
80-T520V227M2R5ATE9	T520V227M2R5ATE009	2.5	220	V	9	55	3.7	3.61	3.19	2.76	1000	2.13
80-T520V227M2R5E15	T520V227M2R5ATE015	2.5	220	V	15	55	2.9	4.00	3.00	2.40	1000	1.80
80-T520V337M2R5ATE9	T520V337M2R5ATE009	2.5	330	V	9	83	3.7	4.03	3.56	3.08	1000	2.37
80-T520V477M2R5ATE9	T520V477M2R5ATE009	2.5	470	V	9	118	3.7	4.25	3.75	3.25	1000	2.50
80-T520D477M2R5ATE9	T520D477M2R5ATE009	2.5	470	D	9	118	4.1	4.25	3.75	3.25	500	2.75
80-T520D687M2R5ATE10	T520D687M2R5ATE010	2.5	680	D	10	170	3.9	4.46	3.93	3.41	500	2.88
80-T520Y687M2R5E25	T520Y687M2R5ATE025	2.5	680	Y	25	272	2.5	5.00	3.75	3.00	500	2.50
80-T520Y108M2R5ATE15	T520Y108M2R5ATE015	2.5	1000	Y	15	170	3.3	4.68	4.13	3.58	500	3.03
80-T520B107M3ATE40	T520B107M003ATE040	3.0	100	B	40	30	1.5	1.11	.98	.85	2000	.52
80-T520B157M3ATE40	T520B157M003ATE040	3.0	150	B	40	45	1.5	1.23	1.09	.94	2000	.58
80-T520B157M003	T520B157M003ATE070	3.0	150	B	70	45	1.1	1.25	.94	.75	2000	.50
80-T520V337M3ATE9	T520V337M003ATE009	3.0	330	V	9	99	3.7	3.19	2.81	2.44	1000	1.87
80-T520V337M003	T520V337M003ATE025	3.0	330	V	25	99	2.2	3.75	2.81	2.25	1000	1.69
80-T520D687M3ATE15	T520D687M003ATE015	3.0	680	D	15	204	3.2	4.04	3.56	3.09	500	2.61
80-T520X108M3E15	T520X108M003ATE015	3.0	1000	X	15	300	3.3	7.00	6.13	3.50	500	3.15
80-T520T156M4E100	T520T156M004ATE100	4.0	15	T	100	6	0.8	1.06	.94	.81	2500	.43
80-T520T476M4E70	T520T476M004ATE070	4.0	47	T	70	19	1.0	1.35	1.02	.81	2500	.43
80-T520B686M4ATE40	T520B686M004ATE040	4.0	68	B	40	27	1.5	1.02	.904	.784	2000	.424
80-T520B686M004	T520B686M004ATE070	4.0	68	B	70	27	1.1	.94	.83	.72	2000	.44
80-T520B107M4ATE35	T520B107M004ATE035	4.0	100	B	35	40	1.6	.94	.83	.72	2000	.39
80-T520B107M004	T520B107M004ATE070	4.0	100	B	70	40	1.1	1.30	.98	.78	2000	.42
80-T520V157M4ATE9	T520V157M004ATE009	4.0	150	V	9	60	3.7	3.61	3.19	2.76	1000	2.13
80-T520V157M4E12	T520V157M004ATE012	4.0	150	V	12	60	3.2	5.33	4.64	4.05	1000	1.81
80-T520V227M4ATE9	T520V227M004ATE009	4.0	220	V	9	88	3.7	2.08	1.84	1.59	1000	1.22
80-T520V227M004	T520V227M004ATE045	4.0	220	V	45	88	1.7	1.44	1.27	1.10	1000	.852
80-T520D227M4E65	T520D227M004ATE065	4.0	220	D	65	88	1.5	1.48	1.30	.74	500	.67
80-T520D337M4E9	T520D337M004ATE009	4.0	330	D	9	132	3.7	2.08	1.82	1.04	500	.94
80-T520V337M4ATE9	T520V337M004ATE009	4.0	330	V	9	132	3.7	3.83	3.38	2.93	1000	2.25
80-T520D477M4ATE10	T520D477M004ATE010	4.0	470	D	10	188	3.9	1.95	1.72	1.49	500	1.26
80-T520D477M4E15	T520D477M004ATE015	4.0	470	D	15	188	3.2	1.74	1.53	1.33	500	1.12
80-T520D477M004	T520D477M004ATE040	4.0	470	D	40	188	1.9	1.31	1.16	1.00	500	.85
80-T520D687M4ATE25	T520D687M004ATE025	4.0	680	D	25	272	2.4	4.04	3.56	3.09	500	2.61
80-T520Y687M4ATE15	T520Y687M004ATE015	4.0	680	Y	15	272	3.3	4.25	3.75	3.25	500	2.75
80-T520Y687M4E25	T520Y687M004ATE025	4.0	680	Y	25	272	2.5	3.75	3.00	2.75	500	2.50
80-T520B336M6ATE40	T520B336M006ATE040	6.3	33	B	40	21	1.5	1.11	.98	.85	2000	.46
80-T520B476M6ATE40	T520B476M006ATE040	6.3	47	B	40	30	1.5	1.08	.959	.832	2000	.45
80-T520B476M006	T520B476M006ATE070	6.3	47	B	70	29	1.1	.94	.83	.72	2000	.374
80-T520B686M006	T520B686M006ATE070	6.3	68	B	70	43	1.1	.94	.83	.72	2000	.39
80-T520B107M6ATE40	T520B107M006ATE040	6.3	100	B	40	63	1.5	1.19	1.05	.91	2000	.49
80-T520V107M6ATE9	T520V107M006ATE009	6.3	100	V	9	63	3.7	3.61	3.19	2.76	1000	2.13
80-T520V157M6ATE9	T520V157M006ATE009	6.3	150	V	9	95	3.7	2.97	2.62	2.27	1000	1.75
80-T520V157M6E15	T520V157M006ATE015	6.3	150	V	15	95	2.9	2.76	2.44	2.11	1000	1.63
80-T520V157M006	T520V157M006ATE045	6.3	150	V	45	95	1.7	2.33	2.06	1.78	1000	1.37
80-T520D157M006	T520D157M006ATE055	6.3	150	D	55	95	1.7	1.57	1.39	1.20	500	1.02
80-T520D227M6E9	T520D227M006ATE009	6.3	220	D	9	139	3.7	2.04	1.78	1.02	500	.921
80-T520D227M6E15	T520D227M006ATE015	6.3	220	D	15	139	3.2	1.95	1.72	1.49	500	1.26
80-T520D227M006	T520D227M006ATE050	6.3	220	D	50	139	1.7	1.52	1.35	1.16	500	.992
80-T520V227M6ATE9	T520V227M006ATE009	6.3	220	V	9	139	3.7	4.46	3.94	3.41	1000	2.63
80-T520D337M6E15	T520D337M006ATE015	6.3	330	D	15	208	3.2	2.00	1.76	1.53	500	1.29
80-T520D337M006	T520D337M006ATE045	6.3	330	D	45	208	1.8	1.57	1.39	1.20	500	1.02
80-T520Y337M6ATE15	T520Y337M006ATE015	6.3	330	Y	15	208	3.3	4.04	3.56	3.09	500	2.61
80-T520Y477M6ATE15	T520Y477M006ATE015	6.3	470	Y	15	296	3.3	3.27	2.88	2.50	500	2.11
80-T520Y477M6E25	T520Y477M006ATE025	6.3	470	Y	25	296	2.5	3.18	2.81	2.43	500	2.06
80-T520X477M006	T520X477M006ATE040	6.3	470	X	40	296	2.0	8.28	7.31	6.33	500	5.36
80-T520D157M008	T520D157M008ATE025	8.0	150	D	25	120	2.4	3.40	3.00	2.60	500	2.20
80-T520D227M10ATE25	T520D227M010ATE025	10	220	D	25	220	2.4	1.95	1.72	1.49	500	1.26
80-T520B336M010	T520B336M010ATE070	10	33	B	70	33	1.1	.83	.735	.638	2000	.345
80-T520V686M010	T520V686M010ATE060	10	68	V	60	68	1.4	2.55	2.25	1.95	1000	1.50
80-T520V107M10E25	T520V107M010ATE025	10	100	V	25	100	2.2	3.19	2.81	2.44	1000	1.88
80-T520D107M010	T520D107M010ATE080	10	100	D	80	100	1.4	1.22	1.08	.937	500	.796
80-T520D157M010	T520D157M010ATE055	10	150	D	55	150	1.7	1.57	1.39	1.20	500	1.02
80-T520D227M010	T520D227M010ATE018	10	220	D	18	220	2.9	1.95	1.72	1.49	500	1.26
80-T520X337M010	T520X337M010ATE040	10	330	X	40	330	2.0	8.28	7.31	6.33	500	5.36
80-T520X337M10E25	T520X337M010ATE025	10	330	X	25	330	2.6	8.50	7.50	6.50	500	5.50
80-T520V336M016	T520V336M016ATE060	16	33	V	60	53	1.4	3.83	3.38	2.93	1000	2.25
80-T520D476M016	T520D476M016ATE070	16	47	D	70	75	1.5	2.76	2.44	2.11	500	1.79
80-T520D476M16E35	T520D476M016ATE035	16	47	D	35	75	2.1	2.98	2.63	2.28	500	1.93
80-T520V476M16ATE70	T520V476M016ATE070	16	47	V	70	76	1.3	3.19	2.81	2.44	1000	1.87
80-T520D156M025	T520D156M025ATE080	25	15	D	80	38	1.4	3.25	2.44	1.95	500	1.63

