

# KEMET Tantalum Polymer Surface Mount Capacitors

The Capacitance Company



CHARGED!

## T520 SERIES - 105°C LOW ESR, KO-CAP

### Features:

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

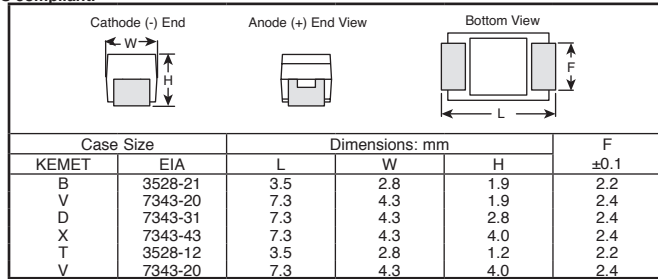
### Electrical Specifications:

- Operating Temperature Range: -55°C to +105°C
- Voltage listed is at 85°C, Derate 25% at 105°C
- Reverse Voltage Rating & 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.

This product is RoHS compliant.



RoHS Compliant



For quantities greater than listed, call for quote.

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MOUSER STOCK NO.	KEMET Part No.	Value (µF)	ESR (mΩ)	Case Code	Price Each		Reel Qty.	Price Per Piece
					1	100		
<b>2.5 Volt</b>								
80-T520A476M2R5ATE90	T520A476M2R5ATE090	47	90	A	.90	.527	2000	.255
80-T520A686M2R5ATE70	T520A686M2R5ATE070	68	70	A	.90	.527	2000	.255
80-T520B227M2R5ATE15	T520B227M2R5ATE015	220	15	B	1.80	1.30	2000	.63
80-T520V227M2R5E15	T520V227M2R5ATE015	220	15	V	3.20	2.24	1000	1.12
80-T520B227M2R5E35	T520B227M2R5ATE035	220	35	B	1.18	.957	2000	.609
80-T520V337M2R5ATE9	T520V337M2R5ATE009	330	9	V	3.60	2.60	1000	1.33
80-T520L337M2R5ATE25	T520L337M2R5ATE025	330	25	L	2.46	2.03	1000	1.01
80-T520W337M2R5ATE40	T520W337M2R5ATE040	330	40	W	3.23	2.66	1000	1.33
80-T520B337M2R5ATE45	T520B337M2R5ATE045	330	45	B	1.23	.63	2000	.399
80-T520V477M2R5ATE07	T520V477M2R5ATE007	470	7	V	3.21	3.02	1000	1.90
80-T520V477M2R5ATE09	T520V477M2R5ATE009	470	9	V	3.60	2.60	1000	1.35
80-T520D477M2R5ATE9	T520D477M2R5ATE009	470	9	D	3.60	2.60	500	1.45
80-T520D687M2R5ATE10	T520D687M2R5ATE010	680	10	D	4.20	3.68	500	3.15
80-T520D687M2R5E15	T520D687M2R5ATE015	680	15	D	3.23	2.75	500	2.38
80-T520Y108M2R5ATE15	T520Y108M2R5ATE015	1000	15	Y	4.68	3.58	500	3.03
80-T520D108M2R5ATE30	T520D108M2R5ATE030	1000	30	D	3.06	2.52	500	1.44
<b>3 Volt</b>								
80-T520B157M303ATE40	T520B157M303ATE040	150	40	B	1.45	.96	2000	.58
80-T520V337M303ATE15	T520V337M303ATE015	330	15	V	3.20	2.40	1000	1.12
80-T520V337M303	T520V337M303ATE025	330	25	V	2.95	1.80	1000	1.26
80-T520T336M10ATE40	T520T336M10ATE040	330	40	T	1.39	.986	2500	.476
80-T520D687M303ATE15	T520D687M303ATE015	680	15	D	3.90	2.66	500	1.52
80-T520X108M3E15	T520X108M303ATE015	1000	15	X	4.88	3.50	500	2.59
<b>4 Volt</b>								
80-T520A476M4ATE70	T520A476M004ATE070	47	70	A	.61	.462	2000	.30
80-T520T476M4E70	T520T476M004ATE070	47	70	T	1.35	.783	2500	.38
80-T520B686M404ATE40	T520B686M004ATE040	68	40	B	1.30	.92	2000	.52
80-T520B686M004	T520B686M004ATE070	68	70	B	1.24	.66	2000	.319
80-T520B107M4ATE35	T520B107M004ATE035	100	35	B	1.30	.754	2000	.364
80-T520T107M4ATE150	T520T107M004ATE150	100	50	T	1.55	.899	2500	.434
80-T520T107M4ATE70	T520T107M004ATE070	100	70	T	1.75	1.01	2500	.49
80-T520B107M004	T520B107M004ATE070	100	70	B	1.24	.66	2000	.319
80-T520B157M4ATE15	T520B157M004ATE015	150	15	B	1.31	1.23	2000	.63
80-T520C157M4ATE25	T520C157M004ATE025	150	25	C	1.64	1.16	500	.68
80-T520B157M4E40	T520B157M004ATE040	150	40	B	.84	.795	2000	.406
80-T520V227M4ATE9	T520V227M004ATE009	220	9	V	3.69	2.52	1000	1.26
80-T520D227M4ATE12	T520D227M004ATE012	220	12	D	1.78	1.47	500	.841
80-T520C227M4ATE15	T520C227M004ATE015	220	15	C	1.36	.80	500	.776
80-T520V227M4ATE015	T520V227M004ATE015	220	15	V	2.48	2.33	1000	1.19
80-T520V227M4E25	T520V227M004ATE025	220	25	V	2.72	2.24	1000	1.12
80-T520B227M4ATE45	T520B227M004ATE045	220	45	B	1.18	.957	2000	.609
80-T520V227M004	T520V227M004ATE045	220	45	V	1.70	1.26	1000	.85
80-T520B227M4ATE70	T520B227M004ATE070	220	70	B	1.02	.525	2000	.329
80-T520D337M4ATE07	T520D337M004ATE007	330	7	D	2.12	1.75	500	1.00
80-T520D337M4E9	T520D337M004ATE009	330	9	D	2.36	1.61	500	.921
80-T520V337M4ATE9	T520V337M004ATE009	330	9	V	3.49	2.55	1000	1.19
80-T520D477M4ATE10	T520D477M004ATE010	470	10	D	2.64	1.93	500	1.03
80-T520D477M4E15	T520D477M004ATE015	470	15	D	2.44	1.66	500	.960
80-T520D477M4E25	T520D477M004ATE025	470	25	D	1.85	1.52	500	.87
80-T520D477M004	T520D477M004ATE040	470	40	D	2.47	1.63	500	1.26
80-T520Y687M4ATE15	T520Y687M004ATE015	680	15	Y	3.96	2.68	500	1.59
80-T520D687M4ATE25	T520D687M004ATE025	680	25	D	2.77	2.60	500	1.64
80-T520V337M4E25	T520V337M004ATE025	330	25	V	2.72	2.24	1000	1.05

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	ESR (mΩ)	Case Code	Price Each		Reel Qty.	Price Per Piece
					1	100		
<b>6.3 Volt</b>								
80-T520V157M006	T520V157M006ATE045	150	45	V	3.08	2.25	1000	1.05
80-T520D157M006	T520D157M006ATE055	150	55	D	2.13	1.40	500	.77
80-T520B157M006ATE70	T520B157M006ATE070	150	70	B	1.12	.72	2000	.348
80-T520V227M006ATE7	T520V227M006ATE007	220	7	V	3.52	2.75	1000	1.33
80-T520D227M006E9	T520D227M006ATE009	220	9	D	1.68	1.58	500	.921
80-T520V227M006ATE9	T520V227M006ATE009	220	9	V	3.69	2.70	1000	1.26
80-T520D227M006E15	T520D227M006ATE015	220	15	D	2.08	1.74	500	1.66
80-T520C227M006ATE18	T520C227M006ATE018	220	18	C	1.92	.799	500	.705
80-T520B227M006ATE35	T520B227M006ATE035	220	35	B	1.64	.84	2000	.54
80-T520V227M006E40	T520V227M006ATE040	220	40	V	1.95	1.37	500	.080
80-T520V227M006E45	T520V227M006ATE045	220	45	V	3.06	2.18	1000	1.26
80-T520D227M006ATE45	T520D227M006ATE045	220	45	D	1.05	.706	2000	.488
80-T520D227M006E50	T520D227M006ATE050	220	50	D	2.76	1.81	500	.94
80-T520B227M006ATE70	T520B227M006ATE070	220	70	B	1.31	.864	2000	.432
80-T520D337M006ATE9	T520D337M006ATE009	330	9	D	2.53	1.93	500	1.08
80-T520D337M006E15	T520D337M006ATE015	330	15	D	2.00	1.40	500	.84
80-T520D337M006ATE18	T520D337M006ATE018	330	18	D	1.78	1.47	500	.841
80-T520V337M006ATE18	T520V337M006ATE018	330	18	V	3.20	2.55	1000	1.35
80-T520D337M006E45	T520D337M006ATE045	330	45	D	2.13	1.40	500	.72
80-T520Y477M006ATE15	T520Y477M006ATE015	470	15	Y	4.38	3.35	500	1.81
80-T520X477M006ATE18	T520X477M006ATE018	470	18	X	11.37	5.58	500	4.40
80-T520D477M006ATE25	T520D477M006ATE025	470	25	D	3.23	2.66	500	1.52
80-T520Y477M006E25	T520Y477M006ATE025	470	25	Y	4.29	3.13	500	2.47
80-T520D477M006E30	T520D477M006ATE030	470	30	D	3.06	2.52	500	1.44
80-T520X477M006E35	T520X477M006ATE035	470	35	X	7.25	5.48	500	3.43
80-T520Y477M006ATE35	T520Y477M006ATE035	470	35	Y	3.23	2.66	500	1.52
80-T520X477M006E40	T520X477M006ATE040	470	40	X	8.27	6.73	500	4.44
<b>8 Volt</b>								
80-T520B336M008ATE25	T520B336M008ATE025	33	25	B	1.39	.986	2000	.476
80-T520B336M8E70	T520B336M008ATE070	33	70	B	.82	.607	2000	.387
80-T520B476M8ATE35	T520B476M008ATE035	47	35	B	1.14	.812	2000	.392
80-T520B476M8ATE70	T520B476M008ATE070	47	70	B	1.12	.72	2000	.348
80-T520D157M008	T520D157M008ATE025	150	25	D	3.20	2.40	500	1.28
80-T520D157M8E40	T520D157M008ATE040	150	40	D	2.55	2.25	500	1.77
80-T520V157M8ATE40	T520V157M008ATE040	150	40	V	3.49	2.55	1000	1.60
<b>10 Volt</b>								
80-T520A156M10ATE80	T520A156M1010ATE080	15	80	A	1.25	.725	2000	.35
80-T520A226M10ATE80	T520A226M1010ATE080	22	80	A	1.03	.835	2000	.439
80-T520B336M10ATE025	T520B336M1010ATE025	33	25	B	1.39	.986	2000	.476
80-T520B336M10	T520B336M1010ATE070	33	70	B	1.24	.76	2000	.39
80-T520B476M10ATE70	T520B476M1010ATE070	47	70	B	1.06	.546	2000	.329
80-T520C476M10ATE100	T520C476M1010ATE100	47	100	C	1.43	1.01	500	.595
80-T520V686M10ATE025	T520V686M1010ATE025	68	25	V	2.89	2.38	1000	1.19
80-T520W686M10ATE25	T520W686M1010ATE025	68	25	W	3.06	2.52	1000	1.26
80-T520V686M10ATE40	T520V686M1010ATE040	68	40	V	3.49	2.38	1000	1.19