

KEMET Tantalum Polymer Surface Mount Capacitors

The Capacitance Company
KEMET
CHARGED:
NEXT

I Case Size

Z Case Size

Case Size		Dimensions: mm (in.)						
KEMET	EIA	L	W	H	F±0.2	S1±0.2	S2±0.2	
I	3216-10	3.2±0.2	1.6±0.2	1.0 max.	1.2	1.0	0.7	
Z	7343-17	7.3±0.4	4.3±0.3	1.7 max.	2.8	5.1	1.3	

Facedown 7343-17 will NOT fit on standard 7343 solder pads, and movement along Z axis could result in a short. Three-pad design must be used with center pad connection to circuit for low ESL properties. Dual pads on cathode connection required to prevent solder lifting with one cathode pad, and for mechanical hold. Will fit on Sanyo TPL pad specification - all dimensions equal except for .80mm tab extension at left cathode (-) plate as shown above.

Standard Construction

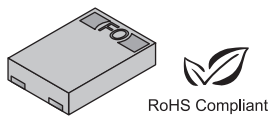
Face Down Termination

Reduction in current "loop area" creates proportional reduction in ESL.

KEMET Tantalum Caps, SMD

The Capacitance Company
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CHARGED:
T528 SERIES FACE DOWN TERMINATION TANTALUM SURFACE MOUNT CAPACITORS

- Features:**
- Low ESR
 - 100% Accelerated Steady State Aging
 - 100% Surge Current Testing
 - Self-Healing Mechanism
 - Polymer Cathode Technology
 - Improved Volumetric Efficiency
 - Low ESL: <0.7nH@20MHz
 - Use up to 90% VR
 - Lead (Pb) free 260°C Reflow Capable
 - Tolerance: ±20%
 - RoHS compliant/Halogen Free
 - High Frequency Cap Retention
 - Non-Ignition Failure Mode
 - 105°C Max. Temperature Capability



NEW PRODUCT

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	ESR mΩ @25°C 100kHz Max.	Case Code	Price Each			Reel Qty.	Price Per Piece
					1	25	100		
2.5 Volt Rating @ 105°C									
80-T528Z337M2R5ATE08	T528Z337M2R5ATE008	330	8	Z	4.64	4.30	4.20	1000	1.95
80-T528Z477M2R5ATE08	T528Z477M2R5ATE008	470	8	Z	4.95	4.65	4.12	1000	1.99
80-T528Z477M2R5ATE09	T528Z477M2R5ATE009	470	9	Z	4.64	4.30	4.20	1000	1.95
4 Volt Rating @ 105°C									
80-T528Z227M4ATE009	T528Z227M004ATE009	220	9	Z	4.64	4.35	4.20	1000	1.95
80-T528Z227M4ATE012	T528Z227M004ATE012	220	12	Z	5.60	4.48	4.06	1000	1.89
80-T528Z337M4ATE009	T528Z337M004ATE009	330	9	Z	4.95	4.65	4.12	1000	1.99
80-T528Z337M4ATE012	T528Z337M004ATE012	330	12	Z	4.64	4.30	4.20	1000	1.95
6.3 Volt Rating @ 105°C									
80-T528I476M6ATE150	T528I476M006ATE150	47	150	I	4.12	3.96	3.81	3000	2.78
80-T528Z157M6ATE009	T528Z157M006ATE009	150	9	Z	4.64	4.35	4.20	1000	1.95
80-T528Z157M6ATE012	T528Z157M006ATE012	150	12	Z	5.60	4.23	3.47	1000	1.89
80-T528Z227M6ATE009	T528Z227M006ATE009	220	9	Z	4.95	4.65	4.12	1000	1.99
80-T528Z227M6ATE012	T528Z227M006ATE012	220	12	Z	4.64	4.35	4.20	1000	1.95
10 Volt Rating @ 105°C									
80-T528I336M10ATE150	T528I336M10ATE150	33	150	I	4.12	3.96	3.81	3000	2.78

The Capacitance Company
KEMET
CHARGED:
TANTALUM ENGINEERING KIT - 08, LOW ESR POLYMER

KEMET Part Number	Size Code KEMET EIA	Cap (µF)	Voltage	Cap. Tol.	ESR 100kHz Ω
T520D337M2R5ATE007	D	7343-31	330	2.5±20%	7
T520B686M004ATE040	B	3528-21	68	4±20%	40
T520V227M004ATE007	V	7343-20	220	4±20%	7
T520Y687M004ATE015	Y	7343-40	680	4±20%	15
T520A226M006ATE100	A	3216-18	22	6.3±20%	100
T520T476M006ATE070	T	3528-12	47	6.3±20%	70
T520B336M006ATE070	B	3528-21	33	6.3±20%	70
T520V157M006ATE015	V	7343-20	150	6.3±20%	15
T520D337M006ATE040	D	7343-31	330	6.3±20%	40
T520X337M010ATE025	X	7343-43	330	10±20%	25
T520W476M006ATE045	W	7343-15	47	16±20%	45
T528I476M006ATE150	I	3216-10	47	6.3±20%	150
T528I336M10ATE150	I	3216-10	33	10±20%	150
T530X158M2R5ATE005	X	7343-43	150	2.5±20%	5
T530Y687M004ATE005	Y	7343-40	680	4±20%	5
A700V476M006ATE025	V	7343-20	47	6.3±20%	25
A700D107M006ATE015	D	7343-31	100	6.3±20%	15
A700X157M006ATE010	X	7343-43	150	6.3±20%	10
A700V106M016ATE045	V	7343-20	10	16±20%	45

MOUSER STOCK NO.	Price Each
80-TANENGGKIT13	51.00

The Capacitance Company
KEMET
CHARGED:
T530 SERIES - 125°C LOW ESR, KO-CAP

- Features for T530:**
- Highest CV in Standard EIA Size
 - 100% Accelerated steady state aging
 - Extremely low ESR
 - 100% Surge current testing
 - 125°C Max. temperature capability
 - Utilizes multiple tantalum anode technology
 - Polymer Cathode technology
 - Volumetric efficiency
 - High frequency capacitance retention
 - Use up to 90% of rated voltage (10% Derating)
 - Non-Ignition failure mode
 - Self-healing mechanism
 - Molded case (pick-and-place precision)

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	ESR mΩ @25°C 100kHz Max.	Case Code	Price Each			Reel Qty.	Price Per Piece
					1	10	100		
2.5 Volt Rating @ 105°C (1.7 Volt Rating at 125°C)									
80-T530D477M2R5E6	T530D477M2R5ATE006	470	6	D	6.93	6.09	5.25	500	2.94
80-T530D567M2R5E5	T530D567M2R5ATE005	560	5	D	7.26	6.82	4.40	500	3.08
80-T530D687M2R5E10	T530D687M2R5ATE010	680	10	D	6.77	5.94	5.12	500	2.87
80-T530X108M2R5ATE5	T530X108M2R5ATE005	1000	5	X	8.09	7.59	6.73	500	3.43
80-T530Y108M2R5ATE5	T530Y108M2R5ATE005	1000	5	Y	7.59	7.48	7.13	500	6.90
80-T530X108M2R5ATE6	T530X108M2R5ATE006	1000	6	X	8.09	7.59	6.73	500	3.43
80-T530X158M2R5ATE5	T530X158M2R5ATE005	1500	5	X	8.37	7.83	6.75	500	3.71
3 Volt Rating @ 105°C (2 Volt Rating at 125°C)									
80-T530D687M3ATE10	T530D687M003ATE010	680	10	D	6.77	5.94	5.12	500	2.87
80-T530X108M003	T530X108M003ATE010	1000	10	X	7.76	6.81	5.87	500	3.29
80-T530X158M003	T530X158M003ATE008	1500	8	X	8.06	7.54	6.50	500	3.57
80-T530X158M3AHE8	T530X158M003AHE008	1500	8	X	8.87	8.15	7.15	500	6.60
4 Volt Rating @ 105°C (2.7 Volt Rating at 125°C)									
80-T530D337M004ATE6	T530D337M004ATE006	330	6	D	6.93	6.09	5.25	500	2.94
80-T530D477M004ATE6	T530D477M004ATE006	470	6	D	7.15	6.99	6.45	500	4.30
80-T530D477M004	T530D477M004ATE010	470	10	D	6.77	6.35	5.63	500	2.87
80-T530X687M4ATE4-TR	T530X687M004ATE004	680	4	X	8.89	8.76	8.08	500	6.73
80-T530Y687M4ATE5	T530Y687M004ATE005	680	5	Y	7.59	6.67	6.21	500	3.22
80-T530X687M4ATE6	T530X687M004ATE006	680	6	X	7.14	6.92	5.95	500	3.33
80-T530X687M004	T530X687M004ATE010	680	10	X	7.76	6.81	5.87	500	3.29
80-T530X108M4ATE6	T530X108M004ATE006	1000	6	X	8.09	7.59	6.73	500	3.43
6.3 Volt Rating @ 105°C (4.2 Volt Rating at 125°C)									
80-T530D227M6E6	T530D227M006ATE006	220	6	D	6.12	5.93	4.29	500	2.84
80-T530Y337M6ATE6	T530Y337M006ATE006	330	6	Y	7.26	6.38	4.40	500	3.08
80-T530D337M6ATE6	T530D337M006ATE006	330	6	D	6.93	6.09	5.25	500	2.94
80-T530D337M6ATE10	T530D337M006ATE010	330	10	D	6.60	6.20	5.50	500	2.80

Cathode (-) End Anode (+) End View Side View Bottom View

Case Size		Dimensions: mm								
KEMET	EIA	L	W	H	K±0.2	F±0.1	S±0.3	A Min.	G Ref.	E Ref.
D	7343-31	7.3	4.3	2.8	1.5	2.4	1.3	3.8	3.5	3.5
X	7343-43	7.3	4.3	4.0	2.3	2.4	1.3	3.8	3.5	3.5
Y	7343-40	7.3	4.3	4.0	1.9	2.4	1.3	3.8	3.5	3.5

MOUSER STOCK NO.	KEMET Part No.	Value (µF)	ESR mΩ @25°C 100kHz Max.	Case Code	Price Each			Reel Qty.	Price Per Piece
					1	10	100		
6.3 Volt Rating @ 105°C (4.2 Volt Rating at 125°C) (Cont.)									
80-T530X477M006ATE4	T530X477M006ATE004	470	4	X	7.72	7.48	6.44	500	3.46
80-T530Y477M6ATE5	T530Y477M006ATE005	470	5	Y	7.59	7.48	7.13	500	6.90
80-T530X477M006ATE5	T530X477M006ATE005	470	5	X	7.96	7.50	6.37	500	4.25
80-T530X477M6ATE6	T530X477M006ATE006	470	6	X	7.14	6.92	5.95	500	3.33
80-T530X477M006AHE6	T530X477M006AHE006	470	6	X	8.37	7.61	7.10	500	3.49
80-T530X477M006	T530X477M006ATE010	470	10	X	7.76	7.28	6.46	500	3.29
80-T530X477M006AH	T530X477M006AHE010	470	10	X	7.96	7.50	6.37	500	4.25
80-T530X687M006ATE10	T530X687M006ATE010	680	10	X	7.99	7.49	6.63	500	3.33
80-T530X687M006ATE18	T530X687M006ATE018	680	18	X	7.78	7.64	7.29	500	7.05
10 Volt Rating @ 105°C (5.3 Volt Rating at 125°C)									
80-T530D157M010E06	T530D157M010ATE006	150	6	D	6.93	6.09	5.25	500	2.90
80-T530D157M010ATE10	T530D157M010ATE010	150	10	D	5.28	4.64	4.40	500	2.80
80-T530D227M010ATE10	T530D227M010ATE006	220	6	D	6.93	6.09	5.25	500	2.94
80-T530Y227M010ATE6	T530Y227M010ATE006	220	6	Y	7.54	7.43	7.08	500	6.85
80-T530D227M010ATE10	T530D227M010ATE010	220	10	D	6.60	5.80	5.00	500	2.80
80-T530X337M010ATE4	T530X337M010ATE004	330	4	X	8.91	8.78	8.10	500	6.75
80-T530X337M010ATE5	T530X337M010ATE005	330	5	X	8.91	8.78	8.10	500	6.75
80-T530X337M010E06	T530X337M010ATE006	330	6	X	8.09	7.59	6.73	500	3.43
80-T530X337M010	T530X337M010ATE010	330	10	X	7.76	7.28	6.46	500	3.29
16 Volt Rating @ 105°C (10.6 Volt Rating at 125°C)									
80-T530X157M16ATE025	T530X157M16ATE025	150	25	X	8.91	8.78	8.10	500	6.75
80-T530X157M16ATE40	T530X157M16ATE040	150	40	X	8.91	8.78	8.10	500	6.75