



## Design a KEMET Tantalum Chip into Your Next project . . . .



KEMET is offering seven Tantalum Chip Engineering Kits to meet your diverse design needs for the future. KEMET's line of Engineering Kits for Tantalum Chips will include two T495, T510 Low ESR Kits, two Low ESR Polymer T520, T528, T530, A700 Kits, one High Temperature T498 and T499 Kit, one T491 Standard Kit and one Low Profile, Small Case Size Kit.

Our current tantalum engineering kit offering includes the following categories:

- TAN ENG KIT 04 - T495, T510 Low ESR, Surge Robust
- TAN ENG KIT 08 - T520, T530, A700 - Low ESR polymer
- TAN ENG KIT 09 - T498, T499 High Temperature
- New** TAN ENG KIT 10 - T491 Standard
- New** TAN ENG KIT 11 - T491, T494, T520, T528 Low Profile, Small Case
- New** TAN ENG KIT 12 - T495, T510 Low ESR, Surge Robust
- New** TAN ENG KIT 13 - T520, T528, T530, A700 Low ESR, Polymer

Each Tantalum engineering Kit contains Tantalum Surface Mount parts - 10 pieces for each part number in a strip of carrier tape clearly labeled with the KEMET part number. Also included with the Engineering Kit will be a Surface mount catalog with outline drawings, dimensions, marking format, recommended mounting pad dimensions, and ordering information.

Experience the quality and performance of KEMET surface mount capacitors. Order one of KEMET's Tantalum Chip Kits and see how our finest surface mount devices handle your most challenging application now and in the future. All Engineering Kits are available through KEMET and your local distributor. A complete listing of all part numbers for each kit is available in this brochure.

F3217G 4/10

**Kit Part Number: TAN ENG KIT 04 - T495, T510  
(Low ESR, Surge Robust) 10 pcs.**

Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz $m\Omega$
T495C107M006ATE150	C	6032-28	100.0	6.3	$\pm 20\%$	150
T495D227M010ATE100	D	7343-31	220.0	10	$\pm 20\%$	100
T495V686M016ATE300	V	7343-20	68.0	16	$\pm 20\%$	300
T495D107M016ATE100	D	7343-31	100.0	16	$\pm 20\%$	100
T495X476M020ATE100	X	7343-43	47.0	20	$\pm 20\%$	100
T495D226M025ATE200	D	7343-31	22.0	25	$\pm 20\%$	200
T495X336M035ATE175	X	7343-43	33.0	35	$\pm 20\%$	175
T495X475M050ATE300	X	7343-43	4.7	50	$\pm 20\%$	300
T510X687M004ATE030	X	7343-43	680.0	4	$\pm 20\%$	30
T510E687M006ATE023	E	7260-38	680.0	6	$\pm 20\%$	23

**Kit Part Number: TAN ENG KIT 08 - T520, T530, A700  
(Low ESR, Polymer) 10 pcs.**

KEMET Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz $m\Omega$
T520D337M2R5ATE007	D	7343-31	330.0	2.5	$\pm 20\%$	7
T520B686M004ATE040	B	3528-21	68.0	4	$\pm 20\%$	40
T520V227M004ATE007	V	7343-20	220.0	4	$\pm 20\%$	7
T520Y687M004ATE015	Y	7343-40	680.0	4	$\pm 20\%$	15
T520A226M006ATE100	A	3216-18	22.0	6.3	$\pm 20\%$	100
T520B336M006ATE070	B	3528-21	33.0	6.3	$\pm 20\%$	70
T520T476M006ATE070	T	3528-12	47.0	6.3	$\pm 20\%$	70
T520V157M006ATE015	V	7343-20	150.0	6.3	$\pm 20\%$	15
T520D337M006ATE040	D	7343-31	330.0	6.3	$\pm 20\%$	40
T520X337M010ATE025	X	7343-43	330.0	10	$\pm 20\%$	25
T520W476M016ATE045	W	7343-15	47.0	16	$\pm 20\%$	45
T530X158M2R5ATE005	X	7343-43	1500.0	2.5	$\pm 20\%$	5
T530Y687M004ATE005	Y	7343-40	680.0	4	$\pm 20\%$	5
A700V476M006ATE025	V	7343-20	47.0	6.3	$\pm 20\%$	25
A700D107M006ATE015	D	7343-31	100.0	6.3	$\pm 20\%$	15
A700X157M006ATE010	X	7343-43	150.0	6.3	$\pm 20\%$	10

**Kit Part Number: TAN ENG KIT 09 - T498, T499  
(High Temperature) 10 pcs.**

KEMET Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz $\Omega$
T498A475K010ATE2K9	A	3216-18	4.7	10	$\pm 10\%$	2.9
T498C226K016ATE1K0	C	6032-28	22.0	16	$\pm 10\%$	1.0
T499B106K016ATE3K5	B	3528-21	10.0	16	$\pm 10\%$	3.5
T499B475K020ATE3K5	B	3528-21	4.7	20	$\pm 10\%$	3.5
T499A105K025ATE8K0	A	3216-18	1.0	25	$\pm 10\%$	8.0
T499D156K025ATE1K0	D	7343-31	15.0	25	$\pm 10\%$	1.0
T499B105K035ATE5K0	B	3528-21	1.0	35	$\pm 10\%$	5.0
T499D106K035ATE1K0	D	7343-31	10.0	35	$\pm 10\%$	1.0
T499X226K035ATE700	X	7343-43	22.0	35	$\pm 10\%$	0.7
T499D106K050ATE1K0	D	7343-31	10.0	50	$\pm 10\%$	1.0

**Kit Part Number: TAN ENG KIT 10 - T491  
(Standard T491) 10 pcs.**

KEMET Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz $\Omega$
T491B107M006AT	B	3528-21	100.0	6.3	$\pm$ 20%	3.0
T491D477M006AT	D	7343-31	470.0	6.3	$\pm$ 20%	0.4
T491A156M010AT	A	3216-18	15.0	10	$\pm$ 20%	6.0
T491B686M010AT	B	3528-21	68.0	10	$\pm$ 20%	3.0
T491C157M010AT	C	6032-28	150.0	10	$\pm$ 20%	0.9
T491D337M010AT	D	7343-31	330.0	10	$\pm$ 20%	0.5
T491X477M010AT	X	7343-43	470.0	10	$\pm$ 20%	0.2
T491T106M016AT	T	3528-12	10.0	16	$\pm$ 20%	8.0
T491A106M016AT	A	3216-18	10.0	16	$\pm$ 20%	7.0
T491C476M016AT	C	6032-28	47.0	16	$\pm$ 20%	1.2
T491D107M016AT	D	7343-31	100.0	16	$\pm$ 20%	0.7
T491A475M020AT	A	3216-18	4.7	20	$\pm$ 20%	4.0
T491B106M025AT	B	3528-21	10.0	25	$\pm$ 20%	3.0
T491D476M025AT	D	7343-31	47.0	25	$\pm$ 20%	0.7
T491D686M025AT	D	7343-31	68.0	25	$\pm$ 20%	0.7
T491A105M035AT	A	3216-18	1.0	35	$\pm$ 20%	7.5
T491C106M035AT	C	6032-28	10.0	35	$\pm$ 20%	1.6
T491X476M035AT	X	7343-43	47.0	35	$\pm$ 20%	0.6
T491D475M050AT	D	7343-31	4.7	50	$\pm$ 20%	1.4
T491X156M050AT	X	7343-43	15.0	50	$\pm$ 20%	0.7

**Kit Part Number: TAN ENG KIT 11 - T491, T494, T520, T528  
(Low Profile, Small Case Size) 10 pcs.**

Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz $\Omega$
T491A107M004AT	A	3216-18	100.0	4	$\pm$ 20%	4.0
T494R106M006AT	R	2012-12	10.0	6.3	$\pm$ 20%	6.0
T494R475M010AT	R	2012-12	4.7	10	$\pm$ 20%	8.0
T494T226M010AT	T	3528-12	22.0	10	$\pm$ 20%	6.0
T494A156M010AT	A	3216-18	15.0	10	$\pm$ 20%	4.0
T494U686M010AT	U	6032-15	68.0	10	$\pm$ 20%	1.2
T494R225M016AT	R	2012-12	2.2	16	$\pm$ 20%	20.0
T494U336M016AT	U	6032-15	33.0	16	$\pm$ 20%	2.2
T491R105M020AT	R	2012-12	1.0	20	$\pm$ 20%	20.0
T494S155M020AT	S	3216-12	1.5	20	$\pm$ 20%	9.0
T494T335M020AT	T	3528-12	3.3	20	$\pm$ 20%	4.0
T494U106M020AT	U	6032-15	10.0	20	$\pm$ 20%	0.8
T520T476M006ATE070	T	3528-12	47.0	6.3	$\pm$ 20%	70.0
T520M157M006ATE200	M	3528-15	150.0	6.3	$\pm$ 20%	200.0
T520U107M006ATE055	U	6032-15	100.0	6.3	$\pm$ 20%	55.0
T520W227M004ATE040	W	7343-15	220.0	4	$\pm$ 20%	40.0
T528I476M006ATE150	I	3216-10	47.0	6.3	$\pm$ 20%	150.0
T528I336M010ATE150	I	3216-10	33.0	10	$\pm$ 20%	150.0

**Kit Part Number: TAN ENG KIT 12 - T495, T510  
(Low ESR, Surge Robust) 10 pcs.**

KEMET Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz m $\Omega$
T495C107M006ATE150	C	6032-28	100.0	6.3	$\pm$ 20%	150
T495D337M010ATE100	D	7343-31	330.0	10	$\pm$ 20%	100
T495X477M010ATE100	X	7343-43	470.0	10	$\pm$ 20%	100
T495V686M016ATE300	V	7343-20	68.0	16	$\pm$ 20%	300
T495D107M016ATE100	D	7343-31	100.0	16	$\pm$ 20%	100
T495X476M020ATE100	X	7343-43	47.0	20	$\pm$ 20%	100
T495D476M025ATE120	D	7343-31	47.0	25	$\pm$ 20%	120
T495X336M035ATE175	X	7343-43	33.0	35	$\pm$ 20%	175
T495X106M050ATE250	X	7343-43	10.0	50	$\pm$ 20%	250
T510X687M004ATE030	X	7343-43	680.0	4	$\pm$ 20%	30
T510E687M006ATE023	E	7260-38	680.0	6.3	$\pm$ 20%	23
T510X107M020ATE045	X	7343-43	100.0	20	$\pm$ 20%	45
T510X476M035ATE055	X	7343-43	47.0	35	$\pm$ 20%	55
T510X106M050ATE090	X	7343-43	10.0	50	$\pm$ 20%	90

**Kit Part Number: TAN ENG KIT 13 - T520, T528, T530, A700  
(Low ESR, Polymer) 10 pcs.**

KEMET Part Number	KEMET Case Size	EIA Case Size	Cap $\mu$ F	Voltage	Cap Tol.	ESR 100kHz m $\Omega$
T520D337M2R5ATE007	D	7343-31	330.0	2.5	$\pm$ 20%	7
T520B686M004ATE040	B	3528-21	68.0	4	$\pm$ 20%	40
T520V227M004ATE007	V	7343-20	220.0	4	$\pm$ 20%	7
T520Y687M004ATE015	Y	7343-40	680.0	4	$\pm$ 20%	15
T520A226M006ATE100	A	3216-18	22.0	6.3	$\pm$ 20%	100
T520T476M006ATE070	T	3528-12	47.0	6.3	$\pm$ 20%	70
T520B336M006ATE070	B	3528-21	33.0	6.3	$\pm$ 20%	70
T520V157M006ATE015	V	7343-20	150.0	6.3	$\pm$ 20%	15
T520D337M006ATE040	D	7343-31	330.0	6.3	$\pm$ 20%	40
T520X337M010ATE025	X	7343-43	330.0	10	$\pm$ 20%	25
T520W476M016ATE045	W	7343-15	47.0	16	$\pm$ 20%	45
T528I476M006ATE150	I	3216-10	47.0	6.3	$\pm$ 20%	150
T528I336M010ATE150	I	3216-10	33.0	10	$\pm$ 20%	150
T530X158M2R5ATE005	X	7343-43	1500.0	2.5	$\pm$ 20%	5
T530Y687M004ATE005	X	7343-40	680.0	4	$\pm$ 20%	5
A700V476M006ATE025	V	7343-20	47.0	6.3	$\pm$ 20%	25
A700D107M006ATE015	D	7343-31	100.0	6.3	$\pm$ 20%	15
A700X157M006ATE010	X	7343-43	150.0	6.3	$\pm$ 20%	10
A700V106M016ATE045	V	7343-20	10.0	16	$\pm$ 20%	45