

# KEMET Tantalum Chip Capacitors, Low ESR

The Capacitance Company  
**KEMET**  
CHARGED™

RoHS Compliant This product is RoHS compliant.

## T521 SERIES HIGH VOLTAGE POLYMER, TANTALUM CAPACITOR

- Tolerance: 20%
- High Voltage (16V-35V)
- Replacement for MnO2 Tantalum Chips (35V-50V)
- Up to 68µF Capacitance Value
- High Ripple Current Capability
- Volumetrically Efficient
- Stable Temperature Characteristics
- Safe Failure Mode
- Low ESR
- Recommended 20% Voltage Derating
- 125°C Rated Temperature
- Pb Free/RoHS Compliant and Halogen Free



PRODUCT **NEW**

RoHS Compliant

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	KEMET Part Number	Volt	Value (µF)	ESR	Case Code	Price Each					
						1	25	50	100	250	500
80-T521V476M20ATE90	T521V476M020ATE090	20	47	90	V	5.80	5.08	4.71	4.35	3.63	2.47
80-T521D476M20ATE55	T521D476M020ATE055	20	47	55	D	6.20	5.43	5.04	4.65	3.88	2.64
80-T521V156M35ATE125	T521V156M035ATE125	35	15	125	V	8.70	7.54	7.25	6.53	5.72	5.11
80-T521V156M35ATE100	T521V156M035ATE100	35	15	100	V	9.31	8.06	7.75	6.98	6.11	5.46
80-T521V226M25ATE60	T521V226M025ATE060	25	22	60	V	6.20	5.43	5.04	4.65	3.88	2.64

## TANTALUM ENGINEERING KIT-04, LOW ESR, SURGE ROBUST



KEMET Part Number	Value (µF)	Voltage	ESR (mΩ)
T495C107M006ATE150	100	6	150
T495D227M010ATE100	220	10	100
T495V686M016ATE300	68	16	300
T495D107M016ATE100	100	16	100
T495X476M202ATE100	47	20	100
T495D226M025ATE200	22	25	200
T495X336M035ATE175	33	35	175
T495X475M050ATE300	4.7	50	300
T510X687M004ATE030	680	4	30
T510E687M006ATE023	680	6	23

MOUSER STOCK NO.	Quantity Per Value	Price Each
80-TANKIT04-T495	10 pieces of each 10 values	50.00

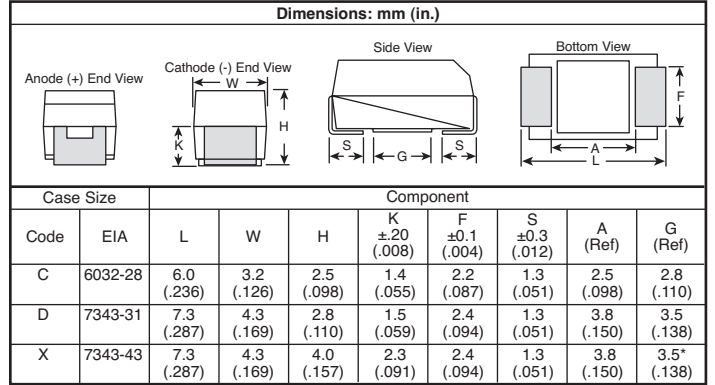
## T495 SERIES SOLID TANTALUM CHIP CAPACITORS, LOW ESR, SURGE ROBUST

- Designed for very low ESR
- High ripple current capability
- High surge current capability
- 100% accelerated steady-state aging
- Low equivalent Series Inductance (<2.5nH ESL)
- Meets or exceeds EIA Standard 535BAAC
- 100% Surge current test
- Available tested per DSCC Dwg. 95158
- New extended values for low ESR
- Precision-molded, laser-marked case
- Symmetrical, compliant terminations
- Taped and reeled per EIA 481-1

RoHS Compliant

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	KEMET Part Number	Value (µF)	ESR	Case Code	Tol.±	Price Each		500 Pc. Reel Price Ea.
						1	100	
<b>4 Volt Rating @ 85°C (2.7 Volt Rating @ 125°C)</b>								
80-T495C337K004ATE700	T495C337K004ATE700	330	700	C	10%	2.00	1.72	.83
80-T495X108K4ATE700	T495X108K004ATE070	1000	70	X	10%	7.00	5.69	4.16
<b>6 Volt Rating @ 85°C (4 Volt Rating @ 125°C)</b>								
80-T495D686K006	T495D686K006ATE175	68	175	D	10%	1.20	.90	.432
80-T495C107K006	T495C107K006ATE150	100	150	C	10%	2.12	1.59	.77
80-T495C157M6ATE200	T495C157M006ATE200	150	200	C	20%	2.10	1.58	.76
80-T495X157K6ATE100	T495X157K006ATE100	150	100	X	10%	2.75	2.06	.99
80-T495D227K006	T495D227K006ATE100	220	100	D	10%	1.12	.51	.49
80-T495X337K006	T495X337K006ATE100	330	100	X	10%	2.50	1.31	.91
80-T495X337M006	T495X337M006ATE100	330	100	X	20%	2.85	1.25	1.15
80-T495D477K6ATE125	T495D477K006ATE125	470	125	D	10%	4.60	3.45	1.66
80-T495D477M6ATE125	T495D477M006ATE125	470	125	D	20%	4.35	3.26	1.57
80-T495X477K006	T495X477K006ATE065	470	65	X	10%	3.25	2.44	1.17
<b>10 Volt Rating @ 85°C (7 Volt Rating @ 125°C)</b>								
80-T495C226K010	T495C226K010ATE345	22	345	C	10%	2.12	1.59	.77
80-T495D476K010	T495D476K010ATE200	47	200	D	10%	1.20	.90	.43
80-T495C686K10ATE225	T495C686K010ATE225	68	225	C	10%	1.70	1.27	.616
80-T495C686M10ATE225	T495C686M010ATE225	68	225	C	20%	2.00	1.50	.72
80-T495D686K010	T495D686K010ATE150	68	150	D	10%	1.20	.653	.43
80-T495D686M010	T495D686M010ATE150	68	150	D	20%	3.25	2.43	1.17
80-T495X686K10ATE150	T495X686K010ATE150	68	150	X	10%	6.80	4.00	2.88
80-T495X686M10ATE150	T495X686M010ATE150	68	150	X	20%	2.28	1.52	1.33
80-T495D107K010	T495D107K010ATE100	100	100	D	10%	1.04	.912	.437
80-T495D107M010	T495D107M010ATE100	100	100	D	20%	1.55	.55	.53
80-T495X107K010	T495X107K010ATE100	100	100	X	10%	2.75	2.06	.99
80-T495D157K010	T495D157K010ATE100	150	100	D	10%	1.70	1.27	.77
80-T495D157M010	T495D157M010ATE100	150	100	D	20%	1.65	1.25	.58
80-T495X157K10ATE100	T495X157K010ATE100	150	100	X	10%	3.25	2.44	1.17
80-T495D227K10ATE125	T495D227K010ATE125	220	125	D	10%	1.65	1.44	.692
80-T495X227K010	T495X227K010ATE100	220	100	X	10%	2.17	1.75	.91
80-T495X227M010	T495X227M010ATE100	220	100	X	20%	2.90	2.58	1.55
80-T495D337K10ATE125	T495D337K010ATE125	330	125	D	10%	2.10	1.59	.76
80-T495X337K10ATE60	T495X337K010ATE060	330	60	X	10%	2.61	2.25	1.09
<b>16 Volt Rating @ 85°C (10 Volt Rating @ 125°C)</b>								
80-T495C336K016	T495C336K016ATE275	33	275	C	10%	1.70	1.27	.77
80-T495C336M016	T495C336M016ATE275	33	275	C	20%	1.60	1.00	.72
80-T495D336K016	T495D336K016ATE225	33	225	D	10%	1.20	.90	.43
80-T495D336M016	T495D336M016ATE225	33	225	D	20%	1.15	.85	.40
80-T495D476K016	T495D476K016ATE150	47	150	D	10%	1.28	.96	.464
80-T495D476M016	T495D476M016ATE150	47	150	D	20%	1.55	1.10	.55
80-T495D686K16ATE150	T495D686K016ATE150	68	150	D	10%	1.02	.46	.437
80-T495D107K016	T495D107K016ATE125	100	125	D	10%	1.50	1.02	.61
80-T495D107M016	T495D107M016ATE125	100	125	D	20%	1.50	.762	.61
80-T495X107K016	T495X107K016ATE100	100	100	X	10%	2.40	1.31	.874
80-T495X107M016	T495X107M016ATE100	100	100	X	20%	2.68	1.90	1.10
80-T495X157K16ATE100	T495X157K016ATE100	150	100	X	10%	2.17	1.88	.91
<b>20 Volt Rating @ 85°C (13 Volt Rating @ 125°C)</b>								
80-T495D156K20ATE275	T495D156K020ATE275	15	275	D	10%	3.50	2.63	1.26
80-T495D156M20ATE275	T495D156M020ATE275	15	275	D	20%	3.25	2.44	1.17
80-T495D226K020	T495D226K020ATE225	22	225	D	10%	2.80	.90	.43
80-T495D226M020	T495D226M020ATE225	22	225	D	20%	2.60	2.28	1.17
80-T495D336K020	T495D336K020ATE200	33	200	D	10%	1.41	1.23	.64
80-T495D336M020	T495D336M020ATE200	33	200	D	20%	1.39	.62	.60
80-T495D476K20ATE175	T495D476K020ATE175	47	175	D	10%	1.21	1.05	.50
80-T495X476K020	T495X476K020ATE150	47	150	X	10%	2.05	1.20	.801



Case Size		Component							
Code	EIA	L	W	H	K ±.20 (.008)	F ±.01 (.004)	S ±.03 (.012)	A (Ref)	G (Ref)
C	6032-28	6.0 (.236)	3.2 (.126)	2.5 (.098)	1.4 (.055)	2.2 (.087)	1.3 (.051)	2.5 (.098)	2.8 (.110)
D	7343-31	7.3 (.287)	4.3 (.169)	2.8 (.110)	1.5 (.059)	2.4 (.094)	1.3 (.051)	3.8 (.150)	3.5 (.138)
X	7343-43	7.3 (.287)	4.3 (.169)	4.0 (.157)	2.3 (.091)	2.4 (.094)	1.3 (.051)	3.8 (.150)	3.5* (.138)

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	KEMET Part Number	Value (µF)	ESR	Case Code	Tol.±	Price Each		500 Pc. Reel Price Ea.
						1	100	
<b>20 Volt Rating @ 85°C (13 Volt Rating @ 125°C) Cont.</b>								
80-T495X476M020	T495X476M020ATE150	47	150	X	20%	2.05	1.20	.91
80-T495D686K020ATE150	T495D686K020ATE150	68	150	D	10%	1.21	.762	.51
80-T495D686M020ATE150	T495D686M020ATE150	68	150	D	20%	4.00	3.00	1.44
80-T495X686K020	T495X686K020ATE150	68	150	X	10%	2.30	1.82	.874
80-T495X686M020	T495X686M020ATE150	68	150	X	20%	2.65	1.90	1.15
<b>25 Volt Rating @ 85°C (17 Volt Rating @ 125°C)</b>								
80-T495C685K025	T495C685K025ATE500	6.8	500	C	10%	1.70	1.00	.74
80-T495C685M025	T495C685M025ATE500	6.8	500	C	20%	1.65	.98	.75
80-T495C106K025	T495C106K025ATE450	10	450	C	10%	1.70	1.00	.74
80-T495D156K25ATE275	T495D156K025ATE275	15	275	D	10%	3.50	2.63	1.26
80-T495D156M25ATE275	T495D156M025ATE275	15	275	D	20%	3.25	2.44	1.17
80-T495X156K25ATE200	T495X156K025ATE200	15	200	X	10%	8.00	6.00	2.88
80-T495D226M025	T495D226M025ATE200	22	200	D	20%	1.20	.912	.437
80-T495X226K025	T495X226K025ATE225	22	225	X	10%	6.40	4.00	2.88
80-T495X226M025	T495X226M025ATE225	22	225	X	20%	2.20	1.76	1.43
80-T495D336K25ATE300	T495D336K025ATE300	33	300	D	10%	1.21	.762	.50
80-T495X336K025	T495X336K025ATE175	33	175	X	10%	1.70	1.45	.801
80-T495X336M025	T495X336M025ATE175	33	175	X	20%	1.70	1.20	.95
80-T495X476M25ATE200	T495X476M025ATE200	47	200	X	20%	2.17	1.90	.91
80-T495X686K25ATE200	T495X686K025ATE200	68	200	X	10%	2.17	1.88	.91
<b>35 Volt Rating @ 85°C (23 Volt Rating @ 125°C)</b>								
80-T495C475K035	T495C475K035ATE600	4.7	600	C	10%	1.70	1.16	.74
80-T495D685K35ATE400	T495D685K035ATE400	6.8	400	D	10%	1.04	.90	.437
80-T495X685K035	T495X685K035ATE300	6.8	300	X	10%	6.40	4.00	2.88
80-T495D106K035	T495D106K035ATE300	10	300	D	10%	2.80	2.10	1.26
80-T495D106M035	T495D106M035ATE300	10	300	D	20%	2.60	1.95	1.14
80-T495X106K035	T495X106K035ATE250	10						