

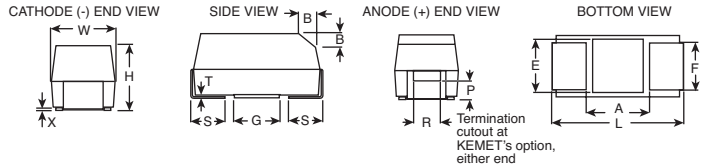
# KEMET Tantalum Chip Capacitors, Low ESR

The Capacitance Company  
**KEMET**  
CHARGED.

RoHS Compliant This product is RoHS compliant.

## T489 SERIES LOW DC LEAKAGE MnO2

- Features:**
- Operating temp. range of -55°C to +125°C
  - Improved reliability: 0.50%/1000hrs, 85°C, Rated Voltage
  - Meets or exceeds EIA standard 535BAAC
  - Halogen-free epoxy
  - Laser-marked case
  - DC Leakage at 0.0075CV
  - Low ESR options available



KEMET	EIA	L*	W*	H*	F±0.1 ±(.004)	S*±0.3 ±(.012)	B*±0.15 (Ref)±.006	X (Ref)	P (Ref)	R (Ref)	T (Ref)	A (Min)	G (Ref)	E (Ref)
C	6032-28	6.0±0.3 (.236±.03)	3.2±0.3 (.126±.012)	2.5±0.3 (.098±.012)	2.2(.087)	1.3(.051)	0.5(.020)	0.10±0.10 (.004±.004)	0.9(.035)	1.0(.039)	0.13(.005)	3.1(.122)	2.8(.110)	2.4(.094)
D	7343-31	7.3±0.3 (.287±.012)	4.3±0.3 (.169±.012)	2.8±0.3 (.110±.012)	2.4(.094)	1.3(.051)	0.5(.020)	0.10±0.10 (.004±.004)	0.9(.035)	1.0(.039)	0.13(.005)	3.8(.150)	3.5(.138)	3.5(.138)

MOUSER STOCK NO.	KEMET Part No.	Case Size	Value (uF)	Volts	ESR	TOL %	Price Each			Reel Qty.	Price Per Piece
							1	50	100		
80-T489D476K16E200	T489D476K016ATE200	D	47	16	200	10	2.48	2.17	2.02	500	1.86
80-T489D107M10E150	T489D107M010ATE150	D	100	10	150	20	3.15	2.76	2.56	500	2.36
80-T489D107M10E440	T489D107M010ATE440	D	100	10	440	20	2.36	2.06	1.91	500	1.76
80-T489C107M10E500	T489C107M010ATE500	C	100	10	500	20	1.12	.98	.91	500	.84
80-T489D227K10E500	T489D227K010ATE500	D	220	10	500	10	2.52	2.21	2.05	500	1.89

## 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

MOUSER STOCK NO.	KEMET Part No.	Value (uF)	ESR (mΩ)	Case Code	Tol. ± (%)	Price Each		Reel Qty.	Price Per Piece
						1	100		

4 Volt Rating @ 85°C (2.7 Volt Rating @ 125°C)									
80-T495C337K4ATE700	T495C337K004ATE700	330	700	C	10	2.07	1.51	500	.81
80-T495X108K4ATE700	T495X108K004ATE700	1000	70	X	10	13.90	11.37	500	5.81

6 Volt Rating @ 85°C (4 Volt Rating @ 125°C)									
80-T495D686K006	T495D686K006ATE175	68	175	D	10	1.14	.76	500	.57
80-T495C107K006	T495C107K006ATE150	100	150	C	10	1.90	.86	500	.64
80-T495C157M6ATE200	T495C157M006ATE200	150	200	C	20	2.31	1.52	500	.96
80-T495X157K6ATE100	T495X157K006ATE100	150	100	X	10	1.87	1.59	500	.86
80-T495D227K006	T495D227K006ATE100	220	100	D	10	1.54	1.01	500	.83
80-T495X337K006	T495X337K006ATE100	330	100	X	10	2.37	1.73	500	.92
80-T495X337M006	T495X337M006ATE100	330	100	X	20	2.37	1.73	500	.92
80-T495D477K6ATE125	T495D477K006ATE125	470	125	D	10	2.31	1.52	500	.96
80-T495D477M6ATE125	T495D477M006ATE125	470	125	D	20	2.31	1.52	500	.96
80-T495X477K006	T495X477K006ATE085	470	85	X	10	3.52	2.57	500	1.37

10 Volt Rating @ 85°C (7 Volt Rating @ 125°C)									
80-T495C226K010	T495C226K010ATE345	22	345	C	10	1.98	1.40	500	.79
80-T495D476K010	T495D476K010ATE200	47	200	D	10	1.14	.76	500	.41
80-T495C686K010ATE225	T495C686K010ATE225	68	225	C	20	1.98	1.40	500	.79
80-T495D686K010ATE150	T495D686K010ATE150	68	150	D	10	1.14	.76	500	.41
80-T495D686M010ATE150	T495D686M010ATE150	68	150	D	20	1.08	.76	500	.69
80-T495X686K010ATE150	T495X686K010ATE150	68	150	X	10	2.58	1.88	500	1.00
80-T495X686M010ATE150	T495X686M010ATE150	68	150	X	20	2.58	1.88	500	1.00
80-T495D107K010	T495D107K010ATE100	100	100	D	10	1.14	.76	500	.41
80-T495D107M010	T495D107M010ATE100	100	100	D	20	1.14	.76	500	.41
80-T495X107K010	T495X107K010ATE100	100	100	X	10	1.87	1.59	500	.86
80-T495D157K010	T495D157K010ATE100	150	100	D	10	1.43	1.01	500	.83
80-T495D157M010	T495D157M010ATE100	150	100	D	20	1.54	1.01	500	.83
80-T495X157K010ATE100	T495X157K010ATE100	150	100	X	10	2.72	1.78	500	1.09
80-T495D227K010ATE125	T495D227K010ATE125	220	125	D	10	2.09	1.37	500	1.12
80-T495X227K010	T495X227K010ATE100	220	100	X	10	2.93	1.95	500	1.14
80-T495X227M010	T495X227M010ATE100	220	100	X	20	2.87	2.29	500	2.06
80-T495D337K010ATE125	T495D337K010ATE125	330	125	D	10	2.10	1.52	500	.76
80-T495X337K010ATE60	T495X337K010ATE080	330	80	X	10	3.52	2.57	500	1.37

16 Volt Rating @ 85°C (10 Volt Rating @ 125°C)									
80-T495C336K016	T495C336K016ATE275	33	275	C	10	1.98	1.40	500	.79
80-T495C336M016	T495C336M016ATE275	33	275	C	20	1.76	1.32	500	1.10
80-T495D336K016	T495D336K016ATE225	33	225	D	10	1.14	.76	500	.41
80-T495D336M016	T495D336M016ATE225	33	225	D	20	1.14	.76	500	.41
80-T495D476K016	T495D476K016ATE150	47	150	D	10	1.14	.76	500	.41
80-T495D476M016	T495D476M016ATE150	47	150	D	20	1.14	.76	500	.41
80-T495D686K016ATE150	T495D686K016ATE150	68	150	D	10	1.14	.76	500	.41
80-T495D107K016	T495D107K016ATE125	100	125	D	10	1.54	1.01	500	.83
80-T495D107M016	T495D107M016ATE125	100	125	D	20	1.54	1.01	500	.83
80-T495X107K016	T495X107K016ATE100	100	100	X	10	2.81	1.91	500	1.09
80-T495X107M016	T495X107M016ATE100	100	100	X	20	2.81	2.05	500	1.09
80-T495X157K016ATE100	T495X157K016ATE100	150	100	X	10	2.37	1.73	500	.92

20 Volt Rating @ 85°C (13 Volt Rating @ 125°C)									
80-T495D156K020ATE275	T495D156K020ATE275	15	275	D	10	1.14	.76	500	.41
80-T495D156M020ATE275	T495D156M020ATE275	15	275	D	20	1.14	.76	500	.41
80-T495D226K020	T495D226K020ATE225	22	225	D	10	1.14	.76	500	.41
80-T495D226M020	T495D226M020ATE225	22	225	D	20	1.14	.76	500	.41
80-T495D336K020	T495D336K020ATE200	33	200	D	10	1.14	.76	500	.41
80-T495D336M020	T495D336M020ATE200	33	200	D	20	1.14	.76	500	.41
80-T495D476K020ATE175	T495D476K020ATE175	47	175	D	10	1.54	1.01	500	.83
80-T495X476K020	T495X476K020ATE150	47	150	X	10	1.87	1.59	500	.86

Dimensions: mm (in.)									
Case Size	EIA	L	W	H	K ±.20 (.008)	F ±.1 (.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)

20 Volt Rating @ 85°C (13 Volt Rating @ 125°C) (Cont.)									
80-T495X476M020	T495X476M020ATE150	47	150	X	20	1.87	1.59	500	.86
80-T495D686K020ATE150	T495D686K020ATE150	68	150	D	10	1.54	1.01	500	.83
80-T495D686M020ATE150	T495D686M020ATE150	68	150	D	20	1.26	.89	500	.80
80-T495X686K020	T495X686K020ATE150	68	150	X	10	2.81	2.05	500	1.09
80-T495X686M020	T495X686M020ATE150	68	150	X	20	2.66	1.74	500	1.09

25 Volt Rating @ 85°C (17 Volt Rating @ 125°C)									
80-T495C685K025	T495C685K025ATE500	6.8	500	C	10	1.98	1.40	500	.80
80-T495C685M025	T495C685M025ATE500	6.8	500	C	20	1.76	1.07	500	.97
80-T495C106K025	T495C106K025ATE450	10	450	C	10	1.98	1.40	500	.79
80-T495D156K025ATE275	T495D156K025ATE275	15	275	D	10	.90	.71	500	.56
80-T495D156M025ATE275	T495D156M025ATE275	15	275	D	20	.90	.71	500	.56
80-T495X156K025ATE200	T495X156K025ATE200	15	200	X	10	3.84	2.25	500	2.10
80-T495D226M025	T495D226M025ATE200	22	200	D	10	1.14	.76	500	.41
80-T495X226K025	T495X226K025ATE225	22	225	X	10	1.87	1.59	500	.86
80-T495X226M025	T495X226M025ATE225	22	225	X	20	1.87	1.59	500	.86
80-T495D336K025ATE300	T495D336K025ATE300	33	300	D	10	1.54	1.01	500	.83
80-T495X336K025	T495X336K025ATE175	33	175	X	10	1.87	1.59	500	.86
80-T495X336M025	T495X336M025ATE175	33	175	X	20	2.71	2.01	500	1.50
80-T495X476M025ATE200	T495X476M025ATE200	47	200	X	20	2.37	1.73	500	.92
80-T495X686K025ATE200	T495X686K025ATE200	68	200	X	10	2.37	1.73	500	.92

35 Volt Rating @ 85°C (23 Volt Rating @ 125°C)									
80-T495C475K035	T495C475K035ATE600	4.7	600	C	10	1.10	.89	500	.70
80-T495D685K035ATE400	T495D685K035ATE400	6.8	400	D	10	1.14			