



TPS Series Low ESR Surface Mount Tantalum Capacitors

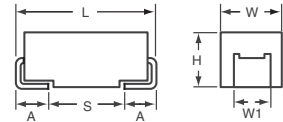


TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and pre-conditioned for optimum performance in typical power supply applications.

• Temperature Range: -55°C - 125°C

Case Size	EIA Code	Dimensions - mm					
		L	W	H	W1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
T	3528-12	3.50	2.80	1.20	2.20	0.80	1.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40



Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR (mΩ)@100kHz Maximum	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Qty.	Pricing	
4	47	10	A	8	1.9	500	478-2381-1-ND	.83	.72	.63	478-2381-2-ND	2,000	280.88/M	TPSA476K004R0500
	220	10	D	8	8.8	50	478-3310-1-ND†	3.63	3.17	2.77	478-3310-2-ND	500	595.21	TPSD227K004R0500
	330	10	D	8	13.2	35	478-2383-1-ND	12.10	10.53	9.20	478-2383-2-ND	500	2202.80	TPSD337K004R0035
	330	10	D	8	13.2	100	478-2384-1-ND	9.42	8.20	7.16	478-2384-2-ND	500	1714.16	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	7.43	6.47	5.66	478-2385-2-ND	500	1353.15	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	10.70	9.31	8.14	478-2386-2-ND	500	1947.12	TPSD687K004R0100
	680	10	D	14	27.2	45	478-3078-1-ND	10.11	8.80	7.69	478-3078-2-ND	500	1840.14	TPSD687K004R0045
	10	10	A	6	0.6	1500	478-2388-1-ND	.83	.72	.63	478-2388-2-ND	2,000	280.88/M	TPSA106K006R1500
	10	10	T	6	0.6	1000	478-4950-1-ND	1.32	1.15	1.01	478-4950-2-ND	2,500	449.40/M	TPST106K006R1000
	22	10	A	6	1.4	900	478-1754-1-ND†	.62	.54	.48	478-1754-2-ND	2,000	210.66/M	TPSA226K006R0900
33	10	A	8	2.1	600	478-1755-1-ND	.83	.72	.63	478-1755-2-ND	2,000	280.88/M	TPSA336K006R0600	
33	20	A	8	2.1	600	478-5228-1-ND	.54	.47	.41	478-5228-2-ND	2,000	182.57/M	TPSA336K006R0600	
47	10	A	10	2.8	800	478-3079-1-ND	.74	.65	.57	478-3079-2-ND	2,000	252.79/M	TPSA476K006R0800	
47	10	B	6	3	250	478-2389-1-ND†	1.03	.90	.79	478-2389-2-ND	2,000	351.10/M	TPSB476K006R0250	
68	20	B	8	4.3	500	478-1761-1-ND	.99	.87	.76	478-1761-2-ND	2,000	337.05/M	TPSB686K006R0500	
68	10	W	6	4.3	125	478-3312-1-ND	3.30	2.88	2.52	478-3312-2-ND	1,000	1082.19	TPSB686K006R0125	
100	10	B	10	6.3	250	478-3080-1-ND	.93	.81	.71	478-3080-2-ND	2,000	316.40/M	TPSB107K006R0250	
100	10	B	10	6.3	400	478-4976-1-ND	.70	.62	.54	478-4976-2-ND	2,000	238.75/M	TPSB107K006R0400	
100	20	B	10	6.3	250	478-4978-1-ND	.93	.81	.71	478-4978-2-ND	2,000	316.40/M	TPSB107K006R0250	
100	10	C	6	6.3	150	478-1764-1-ND	1.65	1.44	1.26	478-1764-2-ND	500	300.70	TPSC107K006R0150	
100	10	C	6	6.3	75	478-3313-1-ND†	2.64	2.30	2.01	478-3313-2-ND	500	432.88	TPSC107K006R0075	
100	20	C	6	6.3	150	478-4090-1-ND	1.98	1.73	1.51	478-4090-2-ND	500	300.70	TPSC107M006R0150	
150	10	C	6	9.5	150	478-2390-1-ND	2.19	1.91	1.67	478-2390-2-ND	500	398.59	TPSC157K006R0150	
220	10	C	8	13.9	125	478-1768-1-ND	1.53	1.33	1.17	478-1768-2-ND	500	277.98	TPSC227K006R0125	
220	10	C	8	13.9	70	478-3081-1-ND	1.78	1.56	1.36	478-3081-2-ND	500	324.66	TPSC227K006R0070	
220	20	C	8	13.9	125	478-5239-1-ND	1.51	1.32	1.15	478-5239-2-ND	500	274.27	TPSC227M006R0125	
220	10	D	8	13.2	100	478-3362-1-ND	3.47	3.02	2.64	478-3362-2-ND	500	631.55	TPSD227K006R0100	
6.3	220	20	D	8	13.2	100	478-3061-1-ND	2.89	2.52	2.20	478-3061-2-ND	500	526.23	TPSD227M006R0100
	330	20	C	12	19.8	80	478-5636-1-ND	2.23	1.95	1.70	478-5636-2-ND	500	406.03	TPSC337M006R0080
	330	20	C	12	19.8	100	478-5637-1-ND	2.15	1.87	1.64	478-5637-2-ND	500	390.75	TPSC337M006R0100
	330	10	D	8	20.8	45	478-3314-1-ND	11.90	10.35	9.05	478-3314-2-ND	500	1948.36	TPSD337K006R0045
	330	20	D	8	20.8	45	478-4115-1-ND	11.77	10.25	8.95	478-4115-2-ND	500	1691.44	TPSD337K006R0045
	330	10	D	8	20.8	50	478-4114-1-ND	3.72	3.24	2.83	478-4114-2-ND	500	676.58	TPSD337K006R0050
	330	10	E	8	20.8	100	478-4135-1-ND	8.59	7.48	6.53	478-4135-2-ND	400	1063.36	TPSE337K006R0100
	330	20	E	8	20.8	100	478-1804-1-ND	7.85	6.83	5.97	478-1804-2-ND	400	1142.66	TPSE337M006R0100
	330	10	Y	12	20.8	100	478-4698-1-ND	5.16	4.50	3.93	478-4698-2-ND	1,000	1879.38	TPSY337K006R0100
	330	20	Y	12	20.8	150	478-4166-1-ND	5.08	4.42	3.87	478-4166-2-ND	1,000	1578.68	TPSY337M006R0150
470	10	D	12	29.6	45	478-3082-1-ND	5.87	5.11	4.47	478-3082-2-ND	500	1068.97	TPSD477K006R0045	
470	10	D	12	29.6	100	478-3315-1-ND†	6.03	5.25	4.59	478-3315-2-ND	500	987.60	TPSD477K006R0100	
470	20	D	12	29.6	100	478-1790-1-ND	5.74	5.00	4.37	478-1790-2-ND	500	1045.02	TPSD477M006R0100	
470	20	D	12	29.6	200	478-1791-1-ND	4.67	4.07	3.55	478-1791-2-ND	500	849.64	TPSD477M006R0200	
470	10	E	10	29.6	45	478-3316-1-ND†	11.03	9.60	8.39	478-3316-2-ND	400	1445.01	TPSE477K006R0045	
470	20	E	10	29.6	50	478-4147-1-ND	10.85	9.44	8.25	478-4147-2-ND	400	1293.01	TPSE477M006R0050	
470	10	V	10	29.6	55	478-4161-1-ND	12.60	10.97	9.58	478-4161-2-ND	400	1557.69	TPSV477K006R0055	
470	10	Y	20	28.2	150	478-4707-1-ND	5.16	4.50	3.93	478-4707-2-ND	1,000	1879.38	TPSY477K006R0150	
680	10	E	10	42.8	45	478-1809-1-ND	11.98	10.43	9.11	478-1809-2-ND	400	1744.06	TPSE687K006R0045	
680	10	V	14	42.8	35	478-3083-1-ND	11.34	9.87	8.62	478-3083-2-ND	400	1650.88	TPSV687K006R0035	
680	20	V	14	42.8	35	478-4165-1-ND	12.39	10.79	9.42	478-4165-2-ND	400	1503.50	TPSV687M006R0035	
1000	20	E	20	60	100	478-6138-1-ND	15.70	13.66	11.93	478-6138-2-ND	400	2285.32	TPSE108M006R0100	
10	2.2	10	A	6	0.5	1800	478-1753-1-ND	.62	.54	.48	478-1753-2-ND	2,000	210.66/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND†	.83	.72	.63	478-2391-2-ND	2,000	280.88/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	.83	.72	.63	478-2392-2-ND	2,000	280.88/M	TPSA685K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.58	.51	.44	478-1751-2-ND	2,000	196.61/M	TPSA106K010R0900
	10	10	A	6	1	1800	478-3317-1-ND	.83	.72	.63	478-3317-2-ND	2,000	252.79/M	TPSA106K010R1800
	10	20	A	6	1	1800	478-4086-1-ND	.31	.27	.24	478-4086-2-ND	2,000	105.74/M	TPSA106M010R1800
	10	10	T	6	1	1000	478-4153-1-ND	1.32	1.15	1.01	478-4153-2-ND	2,000	381.66/M	TPST106K010R1000
	15	10	A	6	1.5	1000	478-1752-1-ND	.62	.54	.48	478-1752-2-ND	2,000	210.66/M	TPSA156K010R1000
	22	10	B	6	2.2	400	478-2393-1-ND	1.03	.90	.79	478-2393-2-ND	2,000	351.10/M	TPSB226K010R0400
	22	10	B	6	2.2	500	478-5232-1-ND	.83	.72	.63	478-5232-2-ND	2,000	280.88/M	TPSB226K010R0500
22	10	B	6	2.2	700	478-3318-1-ND†	1.03	.90	.79	478-3318-2-ND	2,000	316.40/M	TPSB226K010R0700	
22	20	B	6	2.2	700	478-4088-1-ND	.99	.87	.76	478-4088-2-ND	2,000	275.09/M	TPSB226M010R0700	
33	10	B	6	3.3	425	478-1759-1-ND	.99	.87	.76	478-1759-2-ND	2,000	337.05/M	TPSB336K010R0425	
33	10	C	6	3.3	150	478-3319-1-ND	2.19	1.91	1.67	478-3319-2-ND	500	358.53	TPSC336K010R0150	
33	10	C	6	3.3	375	478-1770-1-ND	1.65	1.44	1.26	478-1770-2-ND	500	300.70	TPSC336K010R0375	
47	10	B	8	4.7	250	478-3085-1-ND	.93	.81	.71	478-3085-2-ND	2,000	316.40/M	TPSB476K010R0250	
47	10	B	8	4.7	500	478-4089-1-ND	1.03	.90	.79	478-4089-2-ND				