



TPS Series Low ESR Surface Mount Tantalum Capacitors

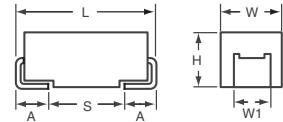


TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

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 Maximum (mΩ)@100kHz	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	.69	.61	.53	478-2381-2-ND	2,000	235.62/M	TPSA476K004R0500
	220	10	D	8	8.8	50	478-3310-1-ND†	3.05	2.66	2.32	478-3310-2-ND	500	499.31	TPSD227K004R0500
	330	10	D	8	13.2	35	478-2383-1-ND	10.15	8.84	7.72	478-2383-2-ND	500	1847.88	TPSD337K004R0035
	330	10	D	8	13.2	100	478-2384-1-ND	6.01	6.88	6.01	478-2384-2-ND	500	1437.98	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	6.24	5.43	4.75	478-2385-2-ND	500	1135.13	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	8.97	7.81	6.83	478-2386-2-ND	500	1633.40	TPSD687K004R0100
6.3	680	10	D	14	27.2	45	478-3078-1-ND	8.48	7.38	6.45	478-3078-2-ND	500	1543.66	TPSD687K004R0045
	10	10	A	6	0.6	1500	478-2388-1-ND	.69	.61	.53	478-2388-2-ND	2,000	235.62/M	TPSA106K006R1500
	10	10	T	6	0.6	1000	478-4950-1-ND	1.11	.97	.85	478-4950-2-ND	2,500	377.00/M	TPST106K006R1000
	22	10	A	6	1.4	900	478-1754-1-ND†	.52	.46	.40	478-1754-2-ND	2,000	176.72/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	.69	.61	.53	478-1755-2-ND	2,000	235.62/M	TPSA336K006R0600
	33	20	A	8	2.1	600	478-5228-1-ND	.45	.40	.35	478-5228-2-ND	2,000	153.16/M	TPSA336K006R0600
10	47	10	A	10	2.8	800	478-3078-1-ND	.62	.55	.48	478-3078-2-ND	2,000	212.06/M	TPSA476K006R0800
	47	10	B	6	3	250	478-2389-1-ND†	.87	.76	.66	478-2389-2-ND	2,000	294.53/M	TPSB476K006R0250
	68	20	B	8	4.3	500	478-1761-1-ND	.83	.73	.64	478-1761-2-ND	2,000	282.75/M	TPSB686K006R0500
	68	10	W	6	4.3	125	478-3312-1-ND	2.77	2.42	2.11	478-3312-2-ND	1,000	907.83	TPSB686K006R0125
	100	10	B	10	6.3	250	478-3080-1-ND	.78	.68	.60	478-3080-2-ND	2,000	265.42/M	TPSB107K006R0250
	100	10	B	10	6.3	400	478-4976-1-ND	.59	.52	.45	478-4976-2-ND	2,000	200.28/M	TPSB107K006R0400
10	100	20	B	10	6.3	250	478-4978-1-ND	.78	.68	.60	478-4978-2-ND	2,000	265.42/M	TPSB107K006R0250
	100	10	C	6	6.3	150	478-1764-1-ND	1.39	1.21	1.06	478-1764-2-ND	500	252.25	TPSC107K006R0150
	100	10	C	6	6.3	75	478-3313-1-ND†	2.22	1.93	1.69	478-3313-2-ND	500	363.13	TPSC107K006R0075
	100	20	C	6	6.3	150	478-4090-1-ND	1.66	1.45	1.27	478-4090-2-ND	500	252.25	TPSC107M006R0150
	150	10	C	6	9.5	150	478-2390-1-ND	1.84	1.60	1.40	478-2390-2-ND	500	334.37	TPSC157K006R0150
	220	10	C	8	13.9	125	478-1768-1-ND	1.28	1.12	.98	478-1768-2-ND	500	233.19	TPSC227K006R0125
10	220	10	C	8	13.9	70	478-3081-1-ND	1.50	1.31	1.14	478-3081-2-ND	500	272.35	TPSC227K006R0070
	220	20	C	8	13.9	125	478-5239-1-ND	1.27	1.10	.97	478-5239-2-ND	500	230.08	TPSC227M006R0125
	220	10	D	8	13.2	100	478-3362-1-ND	2.91	2.54	2.22	478-3362-2-ND	500	529.80	TPSD227K006R0100
	220	20	D	8	13.2	100	478-3061-1-ND	2.43	2.11	1.85	478-3061-2-ND	500	441.44	TPSD227M006R0100
	330	20	C	12	19.8	80	478-5636-1-ND	1.87	1.63	1.43	478-5636-2-ND	500	340.61	TPSC337M006R0080
	330	20	C	12	19.8	100	478-5637-1-ND	1.80	1.57	1.37	478-5637-2-ND	500	327.79	TPSC337M006R0100
10	330	10	D	8	20.8	45	478-3314-1-ND	9.98	8.69	7.59	478-3314-2-ND	500	1634.44	TPSD337K006R0045
	330	20	D	8	20.8	45	478-4115-1-ND	9.88	8.60	7.51	478-4115-2-ND	500	1418.92	TPSD337M006R0045
	330	10	D	8	20.8	50	478-4114-1-ND	3.12	2.72	2.38	478-4114-2-ND	500	567.57	TPSD337K006R0050
	330	10	E	8	20.8	100	478-4135-1-ND	7.21	6.27	5.48	478-4135-2-ND	400	892.03	TPSE337K006R0100
	330	20	E	8	20.8	100	478-1804-1-ND	6.58	5.73	5.01	478-1804-2-ND	400	958.56	TPSE337M006R0100
	330	10	Y	12	20.8	100	478-4698-1-ND	4.33	3.77	3.30	478-4698-2-ND	1,000	1576.58	TPSY337K006R0100
10	330	20	Y	12	20.8	150	478-4166-1-ND	4.26	3.71	3.24	478-4166-2-ND	1,000	1324.32	TPSY337M006R0150
	470	10	D	12	29.6	45	478-3082-1-ND	4.93	4.29	3.75	478-3082-2-ND	500	896.74	TPSD477K006R0045
	470	10	D	12	29.6	100	478-3315-1-ND†	5.06	4.41	3.85	478-3315-2-ND	500	828.48	TPSD477K006R0100
	470	20	D	12	29.6	100	478-1790-1-ND	4.82	4.20	3.67	478-1790-2-ND	500	876.65	TPSD477M006R0100
	470	20	D	12	29.6	200	478-1791-1-ND	3.92	3.41	2.98	478-1791-2-ND	500	712.75	TPSD477M006R0200
	470	10	E	10	29.6	45	478-3316-1-ND†	9.25	8.05	7.04	478-3316-2-ND	400	1212.20	TPSE477K006R0045
10	470	20	E	10	29.6	50	478-4147-1-ND	9.10	7.92	6.92	478-4147-2-ND	400	1084.68	TPSE477M006R0050
	470	10	V	10	29.6	55	478-4161-1-ND	10.57	9.20	8.04	478-4161-2-ND	400	1306.72	TPSV477K006R0055
	470	10	Y	20	28.2	150	478-4707-1-ND	4.33	3.77	3.30	478-4707-2-ND	1,000	1576.58	TPSY477K006R0150
	680	10	E	10	42.8	45	478-1809-1-ND	10.05	8.75	7.64	478-1809-2-ND	400	1463.06	TPSE687K006R0045
	680	10	V	14	42.8	35	478-3083-1-ND	9.51	8.28	7.23	478-3083-2-ND	400	1384.89	TPSV687K006R0035
	680	20	V	14	42.8	35	478-4165-1-ND	10.40	9.05	7.91	478-4165-2-ND	400	1261.26	TPSV687M006R0035
10	1000	20	E	20	60	100	478-6138-1-ND	13.17	11.46	10.01	478-6138-2-ND	400	1917.12	TPSE1087M006R0100
	2.2	10	A	6	0.5	1800	478-1753-1-ND	.52	.46	.40	478-1753-2-ND	2,000	176.72/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND†	.69	.61	.53	478-2391-2-ND	2,000	235.62/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	.69	.61	.53	478-2392-2-ND	2,000	235.62/M	TPSA685K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.49	.43	.37	478-1751-2-ND	2,000	164.94/M	TPSA106K010R0900
	10	10	A	6	1	1800	478-3317-1-ND†	6.59	5.71	5.03	478-3317-2-ND	2,000	212.06/M	TPSA106K010R1800
10	10	20	A	6	1	1800	478-4086-1-ND	.26	.23	.20	478-4086-2-ND	2,000	85.71/M	TPSA106M010R1800
	10	10	T	6	1	1000	478-4153-1-ND	1.11	.97	.85	478-4153-2-ND	2,500	320.17/M	TPST106K010R1000
	15	10	A	6	1.5	1000	478-1752-1-ND	.52	.46	.40	478-1752-2-ND	2,000	176.72/M	TPSA156K010R1000
	22	10	B	6	2.2	400	478-2393-1-ND	.87	.76	.66	478-2393-2-ND	2,000	294.53/M	TPSB226K010R0400
	22	10	B	6	2.2	500	478-5232-1-ND	.69	.61	.53	478-5232-2-ND	2,000	235.62/M	TPSB226K010R0500
	22	10	B	6	2.2	700	478-3318-1-ND†	.87	.76	.66	478-3318-2-ND	2,000	265.42/M	TPSB226K010R0700
10	22	20	B	6	2.2	700	478-4088-1-ND	.83	.73	.64	478-4088-2-ND	2,000	230.77/M	TPSB226M010R0700
	33	10	B	6	3.3	425	478-1759-1-ND	.83	.73	.64	478-1759-2-ND	2,000	282.75/M	TPSB336K010R0425
	33	10	C	6	3.3	150	478-3319-1-ND	1.84	1.60	1.40	478-3319-2-ND	500	300.76	TPSC336K010R0150
	33	10	C	6	3.3	375	478-1770-1-ND	1.39	1.21	1.06	478-1770-2-ND	500	252.25	TPSC336K010R0375
	47	10	B	8	4.7	250	478-3085-1-ND	.78	.68	.60	478-3085-2-ND	2,000	265.42/M	TPSB476K010R0250
	47	10	B	8	4.7	500	478-4							