



TPS Series Low ESR Surface Mount Tantalum Capacitors

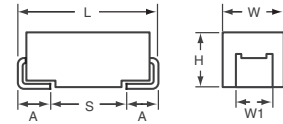


TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and preconditioned 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	



F

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	1.12	.98	.86	478-2381-2-ND	2,000	381.54/M	TPSA476K004R0500	
	220	10	D	8	8.8	50	478-3310-1-ND	4.94	4.30	3.76	478-3310-2-ND	500	808.52	TPSD227K004R0500	
	330	10	D	8	13.2	35	478-2383-1-ND	16.44	14.31	12.50	478-2383-2-ND	500	2992.24	TPSD337K004R0035	
	330	10	D	8	13.2	100	478-2384-1-ND	12.79	11.13	9.73	478-2384-2-ND	500	2328.48	TPSD337K004R0100	
	470	10	D	12	18.8	45	478-2385-1-ND	10.10	8.79	7.68	478-2385-2-ND	500	1838.10	TPSD477K004R0045	
	680	10	D	14	27.2	100	478-2386-1-ND	14.53	12.65	11.05	478-2386-2-ND	500	2644.93	TPSD687K004R0100	
680	10	D	14	27.2	45	478-3078-1-ND	13.74	11.95	10.44	478-3078-2-ND	500	2499.61	TPSD687K004R0045		
6.3	10	10	A	6	0.6	1500	478-2388-1-ND	1.12	.98	.86	478-2388-2-ND	2,000	381.54/M	TPSA106K006R1500	
	10	10	T	6	0.6	1000	478-4950-1-ND	1.80	1.57	1.37	478-4950-2-ND	2,500	610.46/M	TPST106K006R1000	
	22	10	A	6	1.4	900	478-1754-1-ND	.84	.74	.64	478-1754-2-ND	2,000	286.15/M	TPSA226K006R0900	
	33	10	A	8	2.1	600	478-1755-1-ND	1.12	.98	.86	478-1755-2-ND	2,000	381.54/M	TPSA336K006R0600	
	33	20	A	8	2.1	600	478-5228-1-ND	.73	.64	.56	478-5228-2-ND	2,000	248.00/M	TPSA336M006R0600	
	47	10	A	10	2.8	800	478-3079-1-ND	1.01	.88	.77	478-3079-2-ND	2,000	343.39/M	TPSA476K006R0800	
	47	10	B	6	3	250	478-2389-1-ND	1.40	1.23	1.07	478-2389-2-ND	2,000	476.92/M	TPSB476K006R0250	
	68	10	B	8	4.3	500	478-1761-1-ND	1.35	1.18	1.03	478-1761-2-ND	2,000	457.84/M	TPSB686K006R0500	
	68	10	W	6	4.3	125	478-3312-1-ND	4.49	3.91	3.42	478-3312-2-ND	1,000	1470.03	TPSW686K006R0125	
	100	10	B	10	6.3	250	478-3080-1-ND	1.27	1.10	.96	478-3080-2-ND	2,000	429.79/M	TPSB107K006R0250	
	100	10	B	10	6.3	400	478-4976-1-ND	.95	.83	.73	478-4976-2-ND	2,000	324.31/M	TPSB107K006R0400	
	100	10	B	10	6.3	250	478-4978-1-ND	1.27	1.10	.96	478-4978-2-ND	2,000	429.79/M	TPSB107M006R0250	
	100	10	C	6	6.3	150	478-1764-1-ND	2.24	1.96	1.71	478-1764-2-ND	500	408.47	TPSC107K006R0150	
	100	10	C	6	6.3	75	478-3313-1-ND	3.59	3.13	2.73	478-3313-2-ND	500	588.01	TPSC107M006R075	
	100	20	C	6	6.3	150	478-4090-1-ND	2.69	2.35	2.05	478-4090-2-ND	500	408.47	TPSC107M006R0150	
	150	10	C	6	9.5	150	478-2390-1-ND	2.97	2.59	2.26	478-2390-2-ND	500	541.44	TPSC157K006R0150	
	220	10	C	8	13.9	125	478-1768-1-ND	2.08	1.81	1.58	478-1768-2-ND	500	377.61	TPSC227K006R0125	
	220	10	C	8	13.9	70	478-3081-1-ND	2.42	2.11	1.85	478-3081-2-ND	500	441.01	TPSC227K006R0070	
	220	20	C	8	13.9	125	478-5239-1-ND	2.05	1.79	1.56	478-5239-2-ND	500	372.56	TPSC227M006R0125	
	220	10	D	8	13.2	100	478-3362-1-ND	4.71	4.10	3.59	478-3362-2-ND	500	857.89	TPSD227K006R0100	
	10	220	20	D	8	13.2	100	478-3061-1-ND	3.93	3.42	2.99	478-3061-2-ND	500	714.82	TPSD227M006R0100
		330	20	C	12	19.8	80	478-5636-1-ND	3.03	2.64	2.31	478-5636-2-ND	500	551.54	TPSC337K006R0080
330		20	C	12	19.8	100	478-5637-1-ND	2.92	2.54	2.22	478-5637-2-ND	500	530.78	TPSC337M006R0100	
330		10	D	8	20.8	45	478-3314-1-ND	16.16	14.06	12.29	478-3314-2-ND	500	2646.61	TPSD337K006R0045	
330		20	D	8	20.8	45	478-4115-1-ND	15.99	13.92	12.16	478-4115-2-ND	500	2297.62	TPSD337M006R0045	
330		10	D	8	20.8	50	478-4114-1-ND	5.05	4.40	3.84	478-4114-2-ND	500	919.05	TPSD337K006R0050	
330		10	E	8	20.8	100	478-4135-1-ND	11.67	10.16	8.87	478-4135-2-ND	400	1444.44	TPSE337K006R0100	
330		20	E	8	20.8	100	478-1804-1-ND	10.66	9.28	8.11	478-1804-2-ND	400	1552.17	TPSE337M006R0100	
330		10	Y	12	20.8	100	478-4698-1-ND	7.01	6.11	5.34	478-4698-2-ND	1,000	2552.91	TPSY337K006R0100	
330		20	Y	12	20.8	150	478-4166-1-ND	6.90	6.01	5.25	478-4166-2-ND	1,000	2144.45	TPSY337M006R0150	
470		10	D	12	29.6	45	478-3082-1-ND	7.98	6.95	6.07	478-3082-2-ND	500	1452.08	TPSD477K006R0045	
470		10	D	12	29.6	100	478-3315-1-ND	8.19	7.13	6.23	478-3315-2-ND	500	1341.54	TPSD477M006R0100	
470		20	D	12	29.6	100	478-1790-1-ND	7.80	6.79	5.93	478-1790-2-ND	500	1419.53	TPSD477M006R0100	
470		20	D	12	29.6	200	478-1791-1-ND	6.34	5.52	4.82	478-1791-2-ND	500	1154.14	TPSD477M006R0200	
470		10	E	10	29.6	45	478-3316-1-ND	14.98	13.04	11.39	478-3316-2-ND	400	1962.88	TPSE477K006R0045	
470		20	E	10	29.6	50	478-4147-1-ND	14.73	12.82	11.20	478-4147-2-ND	400	1756.40	TPSE477M006R0050	
470		10	V	10	29.6	55	478-4161-1-ND	17.11	14.89	13.01	478-4161-2-ND	400	2115.94	TPSV477K006R0055	
470		10	Y	20	28.2	150	478-4707-1-ND	7.01	6.11	5.34	478-4707-2-ND	1,000	2552.91	TPSY477K006R0150	
680		10	E	10	42.8	45	478-1809-1-ND	16.27	14.16	12.37	478-1809-2-ND	400	2369.10	TPSE687K006R0045	
680		10	V	14	42.8	35	478-3083-1-ND	15.41	13.40	11.71	478-3083-2-ND	400	2242.52	TPSV687K006R0035	
680		20	V	14	42.8	35	478-4165-1-ND	16.83	14.65	12.80	478-4165-2-ND	400	2042.33	TPSE687M006R0035	
1000		20	E	20	60	100	478-6138-1-ND	21.32	18.55	16.21	478-6138-2-ND	400	3104.34	TPSV108M006R0100	
10		2.2	10	A	6	0.5	1800	478-1753-1-ND	.84	.74	.64	478-1753-2-ND	2,000	286.15/M	TPSA225K010R1800
		4.7	10	A	6	0.5	1400	478-2391-1-ND	1.12	.98	.86	478-2391-2-ND	2,000	381.54/M	TPSA475K010R1400
		6.8	10	A	6	0.7	1800	478-2392-1-ND	1.12	.98	.86	478-2392-2-ND	2,000	381.54/M	TPSA685K010R1800
		10	10	A	6	1	900	478-1751-1-ND	.79	.69	.60	478-1751-2-ND	2,000	267.08/M	TPSA106K010R0900
		10	10	A	6	1	1800	478-3317-1-ND	1.12	.98	.86	478-3317-2-ND	2,000	343.38/M	TPSA106K010R1800
		10	20	A	6	1	1800	478-4086-1-ND	.43	.37	.32	478-4086-2-ND	2,000	143.64/M	TPSA106M010R1800
		10	10	T	6	1	1000	478-4153-1-ND	1.80	1.57	1.37	478-4153-2-ND	2,500	518.44/M	TPST106K010R1000
		15	10	A	6	1.5	1000	478-1752-1-ND	.84	.74	.64	478-1752-2-ND	2,000	286.15/M	TPSA156K010R1000
		22	10	B	6	2.2	400	478-2393-1-ND	1.40	1.23	1.07	478-2393-2-ND	2,000	476.92/M	TPSB226K010R0400
		22	10	B	6	2.2	500	478-5232-1-ND	1.12	.98	.86	478-5232-2-ND	2,000	381.54/M	TPSB226K010R0500
	22	10	B	6	2.2	700	478-3318-1-ND	1.40	1.23	1.07	478-3318-2-ND	2,000	429.79/M	TPSB226K010R0700	
	22	20	B	6	2.2	700	478-4088-1-ND	1.35	1.18	1.03	478-4088-2-ND	2,000	373.68/M	TPSB226M010R0700	
	33	10	B	6	3.3	425	478-1759-1-ND	1.35	1.18	1.03	478-1759-2-ND	2,000	457.84/M	TPSB336K010R0425	
	33	10	C	6	3.3	150	478-3319-1-ND	2.97	2.59	2.26	478-3319-2-ND	500	487.02	TPSC336K010R0150	
	33	10	C	6	3.3	375	478-1770-1-ND	2.24	1.96	1.71	478-1770-2-ND	500	408.47	TPSC336M010R0375	
	47	10	B	8	4.7	250	478-3085-1-ND	1.27	1.10	.96	478-3085-2-ND	2,000	429.79/M	TPSB476K010R0250	
	47	10	B	8											