

AVX TPS Series Low ESR Surface Mount Tantalum Capacitors

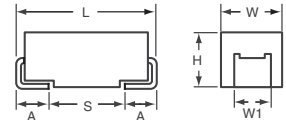


TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

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	W ₁	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	8.50	7.40	6.47	478-2381-2-ND	2,000	2890.68/M	TPSA476K004R0500
	220	10	D	8	8.8	100	478-2382-1-ND	35.71	31.07	27.14	—	—	—	TPSD227K004R0100
	220	10	D	8	8.8	50	478-3310-1-ND†	37.41	32.55	28.44	478-3310-2-ND	500	6125.69	TPSD227K004R0500
	330	10	D	8	13.2	35	478-2383-1-ND	124.55	108.37	94.67	478-2383-2-ND	500	2670.58	TPSD337K004R0035
	330	10	D	8	13.2	100	478-2384-1-ND	96.92	84.33	73.67	478-2384-2-ND	500	17641.65	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	76.52	66.58	58.16	478-2385-2-ND	500	13926.28	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	110.10	95.80	83.68	478-2386-2-ND	500	20039.21	TPSD687K004R0100
	680	10	D	14	27.2	45	478-3078-1-ND	104.06	90.54	79.09	478-3078-2-ND	500	18938.21	TPSD687K004R0045
	1000	10	V	16	40	35	478-3311-1-ND†	163.66	142.40	124.39	478-3311-2-ND	400	21445.44	TPSV108K004R0035
	1000	10	V	16	40	40	478-2387-1-ND	159.41	138.70	121.16	478-2387-2-ND	400	23210.46	TPSV108K004R0040
	10	10	A	6	0.6	1500	478-2388-1-ND	8.50	7.40	6.47	478-2388-2-ND	2,000	2890.68/M	TPSA106K006R1500
	10	10	T	6	0.6	1000	478-4950-1-ND	13.60	11.84	10.34	478-4950-2-ND	2,500	4625.09/M	TPST106K006R1000
6.3	22	10	A	6	1.4	900	478-1754-1-ND†	6.38	5.56	4.85	478-1754-2-ND	2,000	2168.01/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	8.50	7.40	6.47	478-1755-2-ND	2,000	2890.68/M	TPSA336K006R0600
	33	20	A	8	2.1	600	478-5228-1-ND	5.53	4.82	4.20	478-5228-2-ND	2,000	1878.94/M	TPSA336K006R0600
	47	10	A	10	2.8	800	478-3079-1-ND	7.65	6.66	5.82	478-3079-2-ND	2,000	2601.61/M	TPSA476K006R0800
	47	10	B	6	3	250	478-2389-1-ND†	10.63	9.25	8.08	478-2389-2-ND	2,000	3613.35/M	TPSB476K006R0250
	68	20	B	6	4.3	500	478-1761-1-ND	10.20	8.88	7.76	478-1761-2-ND	2,000	3468.82/M	TPSB686K006R0500
	68	10	W	6	4.3	125	478-3312-1-ND	34.01	29.59	25.85	478-3312-2-ND	1,000	11137.62	TPSW686K006R0125
	100	10	B	10	6.3	250	478-3080-1-ND	9.61	8.33	7.27	478-3080-2-ND	2,000	3256.27/M	TPSB107K006R0250
	100	10	B	10	6.3	400	478-4976-1-ND	7.23	6.30	5.50	478-4976-2-ND	2,000	2457.08/M	TPSB107K006R0400
	100	20	B	10	6.3	250	478-4978-1-ND	9.61	8.33	7.27	478-4978-2-ND	2,000	3256.27/M	TPSB107M006R0250
	100	10	C	6	6.3	150	478-1764-1-ND	17.00	14.80	12.93	478-1764-2-ND	500	3094.73	TPSC107K006R0150
	100	10	C	6	6.3	75	478-3313-1-ND†	27.21	23.67	20.68	478-3313-2-ND	500	4455.05	TPSC107K006R0075
	100	20	C	6	6.3	150	478-4090-1-ND	20.40	17.76	15.51	478-4090-2-ND	500	3094.73	TPSC107M006R0150
	150	10	C	6	9.5	150	478-2390-1-ND	22.53	19.61	17.13	478-2390-2-ND	500	4102.22	TPSC157K006R0150
	220	10	C	8	13.9	125	478-1768-1-ND	15.73	13.69	11.96	478-1768-2-ND	500	2860.92	TPSC227K006R0125
	220	10	C	8	13.9	70	478-3081-1-ND	18.36	15.98	13.96	478-3081-2-ND	500	3341.29	TPSC227K006R0070
	220	20	C	8	13.9	125	478-5239-1-ND	15.56	13.51	11.80	478-5239-2-ND	500	2822.66	TPSC227M006R0125
	220	10	D	8	13.2	100	478-3362-1-ND	35.71	31.07	27.14	478-3362-2-ND	500	6499.78	TPSD227K006R0100
	220	20	D	8	13.2	100	478-3061-1-ND	29.76	25.89	22.62	478-3061-2-ND	500	5415.77	TPSD227M006R0100
	330	10	D	8	20.8	45	478-3314-1-ND	122.43	106.52	93.05	478-3314-2-ND	500	20051.97	TPSD337K006R0045
	330	10	D	8	20.8	50	478-4114-1-ND	38.26	33.29	29.08	—	—	—	TPSD337K006R0050
	330	20	D	8	20.8	45	478-4115-1-ND	121.15	105.41	92.08	478-4115-2-ND	500	17407.85	TPSD337M006R0045
	330	10	E	8	20.8	100	478-4135-1-ND	88.42	76.93	67.20	478-4135-2-ND	400	10943.77	TPSE337K006R1000
	330	20	E	8	20.8	100	478-1804-1-ND	80.77	70.27	61.39	478-1804-2-ND	400	11759.97	TPSE337M006R1000
	330	10	Y	12	20.8	100	478-4698-1-ND	53.14	46.24	40.39	478-4698-2-ND	1,000	19342.05	TPSY337K006R1000
	330	20	Y	12	20.8	150	478-4166-1-ND	52.29	45.50	39.74	478-4166-2-ND	1,000	16247.32	TPSY337M006R1050
	470	10	D	12	29.6	45	478-3082-1-ND	60.45	52.60	45.95	478-3082-2-ND	500	11001.59	TPSD477K006R0045
	470	10	D	12	29.6	100	478-3315-1-ND†	62.06	54.00	47.17	478-3315-2-ND	500	10164.14	TPSD477K006R0100
	470	20	D	12	29.6	100	478-1790-1-ND	59.09	51.42	44.91	478-1790-2-ND	500	10755.03	TPSD477M006R0100
	470	20	D	12	29.6	200	478-1791-1-ND	48.04	41.80	36.51	478-1791-2-ND	500	8744.31	TPSD477M006R0200
	470	10	E	10	29.6	45	478-3316-1-ND†	113.50	98.76	86.27	478-3316-2-ND	400	14871.70	TPSE477K006R0045
	470	20	E	10	29.6	50	478-4147-1-ND	111.63	97.12	84.84	478-4147-2-ND	400	13307.33	TPSE477M006R0050
	470	10	V	10	29.6	55	478-4161-1-ND	129.66	112.81	98.54	478-4161-2-ND	400	16031.37	TPSV477K006R0055
	470	10	Y	20	28.2	150	478-4707-1-ND	53.14	46.24	40.39	478-4707-2-ND	1,000	19342.05	TPSY477K006R0150
	680	10	E	10	42.8	45	478-1809-1-ND	123.28	107.26	93.70	478-1809-2-ND	400	17949.42	TPSE687K006R0045
	680	10	V	14	42.8	35	478-3083-1-ND	116.73	101.53	88.69	478-3083-2-ND	400	16990.40	TPSE687K006R0035
	680	20	V	14	42.8	35	478-4165-1-ND	127.53	110.96	96.93	478-4165-2-ND	400	15473.64	TPSE687M006R0035
	2.2	10	A	6	0.5	1800	478-1753-1-ND	6.38	5.56	4.85	478-1753-2-ND	2,000	2168.01/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND†	8.50	7.40	6.47	478-2391-2-ND	2,000	2890.68/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	8.50	7.40	6.47	478-2392-2-ND	2,000	2890.68/M	TPSA685K010R1800
10	10	A	6	1	900	478-1751-1-ND	5.95	5.18	4.53	478-1751-2-ND	2,000	2023.48/M	TPSA106K010R0900	
10	10	A	6	1	1800	478-3317-1-ND†	8.50	7.40	6.47	478-3317-2-ND	2,000	2601.61/M	TPSA106K010R1800	
10	20	A	6	1	1800	478-4086-1-ND	3.23	2.78	2.43	478-4086-2-ND	2,000	1088.26/M	TPSA106M010R1800	
10	10	T	6	1	1000	478-4153-1-ND	13.60	11.84	10.34	478-4153-2-ND	2,500	3927.93/M	TPST106K010R1000	
15	10	B	6	1.5	1000	478-1752-1-ND	6.38	5.56	4.85	478-1752-2-ND	2,000	2168.01/M	TPSA156K010R1000	
22	10	B	6	2.2	400	478-2393-1-ND	10.63	9.25	8.08	478-2393-2-ND	2,000	3613.35/M	TPSB226K010R0400	
22	10	B	6	2.2	500	478-5232-1-ND	8.50	7.40	6.47	478-5232-2-ND	2,000	2890.68/M	TPSB226K010R0500	
22	10	B	6	2.2	700	478-3318-1-ND†	10.63	9.25	8.08	478-3318-2-ND	2,000	3256.27/M	TPSB226K010R0700	
22	20	B	6	2.2	700	478-4088-1-ND	10.20	8.88	7.76	478-4088-2-ND	2,000	2831.17/M	TPSB226M010R0700	
33	10	C	6	3.3	425	478-1759-1-ND	10.20	8.88	7.76	478-1759-2-ND	2,000	3468.82/M	TPSB336K010R0425	
33	10	C	6	3.3	191	478-3319-1-ND	22.53	19.61	17.13	478-3319-2-ND	500	3689.87	TPSC336K010R0150	
33	10	C	6	3.3	375	478-1770-1-ND	17.00	14.80	12.93	478-1770-2-ND	500	3094.73	TPSC336K010R0375	
47	10	B	8	4.7	250	4								