



Surface Mount Low ESR Tantalum Capacitors

TPS Series Specifications

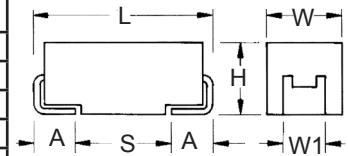


Part Number Determination

TPSD107K025R0100						
TPS	D	107	K	025	R	0100
TYPE	CASE CODE	CAPACITANCE CODE	TOLERANCE	VOLTAGE CODE	PACKAGING	MAX ESR
Low ESR Tantalum	A=3216 B=3528 C=6032 D=7343 E=7343H R=2012 V=7361 S=3216 T=3528 W=6032 X=7343 Y=7343	in PF 2 significant digits and 3rd representing the number of zeros to follow	K=±10% M=±20%	002=2V 004=4V 006=6.3V 010=10V 016=16V 020=20V 025=25V 035=35V 050=50V	R=7" Reel, Standard Plating S=13" Reel, Standard Plating A=7" Reel, Gold Plating B=13" Reel, Gold Plating Y=7" Reel, Lead Free P=13" Reel, Lead Free H=7" Reel, Tin Lead Plating K=13" Reel, Tin Lead Plating	In Milliohms

Package Dimensions (mm/in)

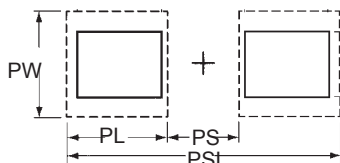
Case Code	EIA Code	L±0.2 (0.008)	W+0.2 (0.008) -0.1 (0.004)	H+0.2 (0.008) -0.1 (0.004)	W1±0.2 (0.008)	A+0.3 (0.012) -0.2 (0.008)	S Min.
A	3216-18	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	1.2 (0.047)	0.8 (0.031)	1.1 (0.043)
B	3528-21	3.5 (0.138)	2.8 (0.110)	1.9 (0.075)	2.2 (0.087)	0.8 (0.031)	1.4 (0.055)
C	6032-28	6.0 (0.236)	3.2 (0.126)	2.6 (0.102)	2.2 (0.087)	1.3 (0.051)	2.9 (0.114)
D	7343-31	7.3 (0.287)	4.3 (0.169)	2.9 (0.114)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
E	7343-43	7.3 (0.287)	4.3 (0.169)	4.1 (0.162)	2.4 (0.094)	1.3 (0.051)	4.4 (0.173)
V	7361-38	7.3 (0.287)	6.10 (0.240)	3.45±0.30 (0.136±0.012)	3.10 (0.120)	1.40 (0.055)	4.40 (0.173)



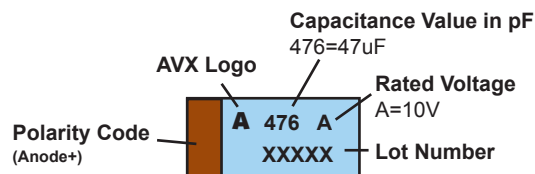
W1 dimension applies to the termination width for A dimensional area only.

Land Pattern (in/mm)

Case Code	PSL	PL	PS	PW
A	0.157 (4.0)	0.054 (1.4)	0.039 (1.0)	0.071 (1.8)
B	0.157 (4.0)	0.054 (1.4)	0.047 (1.2)	0.110 (2.8)
C	0.256 (6.5)	0.079 (2.0)	0.098 (2.5)	0.110 (2.8)
D	0.315 (8.0)	0.079 (2.0)	0.157 (4.0)	0.119 (3.0)
E	0.315 (8.0)	0.079 (2.0)	0.157 (4.0)	0.119 (3.0)



Marking





Surface Mount Low ESR Tantalum Capacitors

TPS Series Electrical Characteristic



Part Number	Case Size	Cap uF	DCL max (uA)Max	DF % Max	ESR max (MW) @ 100kHz	100 kHz Ripple Current (mA) Ratings			
						25oC	85oC	125oC	
6.3V	TPSA226K006R0900	A	22	1.4	6	900	0.289	0.260	0.115
	TPSC107K006R0150	C	100	6.3	6	150	0.856	0.766	0.343
	TPSC227K006R0125	C	220	13.9	10	125	0.938	0.844	0.375
	TPSE337K006R0100	E	330	20.8	8	100	1.285	1.149	0.514
	TPSB476K010R0650	B	47	4.7	8	650	0.362	0.325	0.145
	TPSA106K010R0900	A	10						
	TPSC107K010R0100	C	100	10.0	6	100	1.049	0.944	0.420
	TPSD107K010R0100	D	100	10.0	6	100	1.225	1.095	0.490
	TPSD157K010R0100	D	150	15.0	6	100	1.225	1.095	0.490
	TPSD227K010R0150	D	220	22.0	8	150	1.000	0.900	0.400
	TPSE227K010R0100	E	220	22.0	8	100	1.285	1.149	0.514
	TPSE337K010R0100	E	330	33.0	8	100	1.285	1.149	0.514
	TPSE477K010R0100	E	470	47.0	10	100	1.285	1.149	0.574
16V	TPSB156K016R0800	B	15	2.4	6	800	0.326	0.292	0.130
	TPSB226K016R0600	B	22	3.5	6	600	0.376	0.338	0.150
	TPSC226K016R0375	C	22	3.5	6	375	0.542	0.485	0.217
	TPSD476K016R0150	D	47	7.5	6	150	1.000	0.894	0.400
	TPSC476K016R0350	C	47	7.5	6	350	0.561	0.501	0.224
	TPSC686K016R0200	C	68	10.9	6	200	0.741	0.667	0.296
	TPSD107K016R0125	D	100	16.0	6	125	1.095	0.980	0.438
	TPSE107K016R0125	E	100	16.0	6	125	1.149	1.028	0.460
20V	TPSD157K016R0150	D	150	24.0	6	150	1.000	0.900	0.400
	TPSE227K016R0150	E	220	35.2	10	150	1.049	0.944	0.420
	TPSB106K020R1000	B	10	2.0	6	1000	0.292	0.261	0.117
	TPSD336K020R0200	D	33	6.6	6	200	0.866	0.775	0.346
	TPSE476K020R0150	E	47	9.4	6	150	1.049	0.938	0.420
	TPSE686K020R0150	E	68	13.6	6	150	1.049	0.938	0.420
25V	TPSD686K020R0300	D	68	13.6	6	300	0.707	0.636	0.283
	TPSE107K020R0150	E	100	20.0	6	150	1.049	0.944	0.420
	TPSC106K025R0500	C	10	2.5	6	500	0.469	0.420	0.188
	TPSD226K025R0200	D	22	5.5	6	200	0.866	0.775	0.346
35V	TPSE336K025R0300	E	33	8.3	6	300	0.742	0.663	0.297
	TPSD476K025R0150	D	47						
	TPSC475K035R0600	C	4.7	1.6	6	600	0.428	0.383	0.171
	TPSD106K035R0300	D	10	3.5	6	300	0.707	0.632	0.283
	TPSE226K035R0300	E	22	7.7	6	300	0.742	0.663	0.297