Surface Mount Type POSCAP

Series: TPF

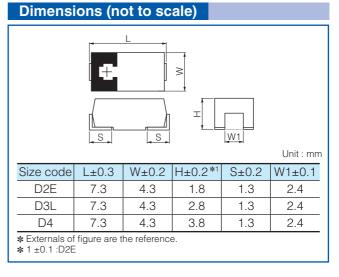


Features

- Super low ESR (5 m Ω max.)
- Large capacitance (1000 µF max.)
- RoHS compliance, Halogen free

Specifications										
Size code	D2E		D3L	D4						
Category temperature range			–55 °C to +105 °C							
Rated voltage range	2.0 V.DC		2.5 V.DC to 10 V.DC	2.5 V.DC to 6.3 V.DC						
Category voltage range	2.0 V.DC		2.5 V.DC to 10 V.DC	2.5 V.DC to 6.3 V.DC						
Rated capacitance range	220 µF to 330	μF	150 μF to 680 μF	470 μF to 1000 μF						
Capacitance tolerance	±20 % (120 Hz / + 20 °C)									
Leakage current	Please see the attached characteristics list									
Dissipation factor (tan δ)	Please see the attached characteristics list									
Surge voltage (V.DC)	Rated voltage × 1.15									
	+105 °C, 2000 h rated voltage applied									
Endurance	Capacitance change Within ±20 % of the initial value									
Lildurance	tan δ	≤ 1.5 times of the initial limit								
	DC leakage current	age current Within the initial limit								
	+60 °C, 90 % to 95 %, 500 h, No-applied voltage									
Damp heat	Capacitance change	Within +50 %, -20 % of the initial value (2TPF220M6, 2TPF330M6, ETPF1000M6H (5H))								
(Steady State)		Within +40 %, -20 % of the initial value (Except for above model)								
	tan δ	≤ 1.5 times of the initial limit								
	DC leakage current									

Marking R. Voltage code Lot. No. R. Voltage (V.DC) 2.0 2.5 4.0 6.3 10.0 Code Α d е g





Panasonic Conductive Polymer Tantalum Solid Capacitors

Characteristics list																	
	Datad	Datad	od Cotogony Cotogo			Case size (mm)			Specifications			Standard		Floor life			
Series	voltage	temp. voltage	temp.	L		W	Н	code	Ripple*1 current (mAr.m.s.)	ESR *2 (mΩ max.)	tan δ^{*3}	LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)	Reflow Temp ≤ 260°C	Reflow Temp ≤ 250°C	
TPF	2	105	2.0	105	220	7.3	4.3	1.8	D2E	4700	6	0.10	88.0	2TPF220M6	3000	-	
		105	2.0	105	330	7.3	4.3	1.8	DZL	4700	6	0.10	132.0	2TPF330M6	3000		
	2.5	105	2.5	105	330	7.3	4.3	2.8	D3L	4400	7	0.10	82.5	2R5TPF330M7L	2500		
		105	2.5	105	470	7.3	4.3	2.8		4400	6	0.10	117.5	2R5TPF470M6L	2500		
		105	2.5	105		7.3	4.3	2.8		4400	7	0.10	117.5	2R5TPF470M7L	2500		
		105	2.5	105		7.3	4.3	2.8		4400	10	0.10	117.5	2R5TPF470ML	2500		
		105	2.5	105		7.3	4.3	3.8	D4	6100	5	0.10	117.5	ETPF470M5H	2000		
		105	2.5	105	680	7.3	4.3	2.8	D3L	4400	6	0.10	170.0	2R5TPF680M6L	2500		2a
		105	2.5	105		7.3	4.3	2.8		4400	7	0.10	170.0	2R5TPF680M7L	2500		
		105	2.5	105		7.3	4.3	2.8		4400	10	0.10	170.0	2R5TPF680ML	2500		
		105	2.5	105		7.3	4.3	3.8	D4	6100	5	0.10	170.0	ETPF680M5H	2000		
		105	2.5	105	1000	7.3	4.3	3.8		6100	5	0.10	250.0	ETPF1000M5H	2000	3	
		105	2.5	105		7.3	4.3	3.8		5600	6	0.10	250.0	ETPF1000M6H	2000		
	4	105	4.0	105		7.3	4.3	2.8	D3L	4000	12	0.10	132.0	4TPF330ML	2500		
		105	4.0	105		7.3	4.3	2.8		4400	10	0.10	188.0	4TPF470ML	2500		
		105	4.0	105	680	7.3	4.3	3.8	D4	4400	10	0.10	272.0	4TPF680MAH	2000		
	6.3	105	6.3	105	220	7.3	4.3	2.8	D3L	6100	5	0.10	138.6	6TPF220M5L	2500		
		105	6.3	105		7.3	4.3	2.8		4600	9	0.10	138.6	6TPF220M9L	2500		
		105	6.3	105		7.3	4.3	2.8		4000	12	0.10	138.6	6TPF220ML	2500		
		105	6.3	105	330	330 7.3	4.3	2.8		3900	9	0.10	207.9	6TPF330M9L	2500		
		105	6.3	105	470	7.3	4.3	3.8	D4	4400	10	0.10	296.1	6TPF470MAH	2000		
	10	105	10.0	105	150	7.3	4.3	2.8	D3L	3600	15	0.10	150.0	10TPF150ML	2500	-	

^{*1} Ripple current (100 kHz/ +45 °C), *2 ESR (100 kHz/+20 °C) *3 $\tan \delta$ (120 Hz/+20 °C) *4 After 5 minutes

[♦] Please refer to each page in this catarog for "Reflow conditions" and "Taping specifications".



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