Surface Mount Type POSCAP

Series : TPF

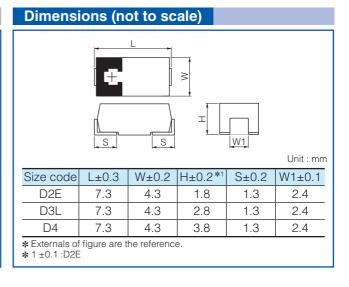


Features

- 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								
Litatiance	tan δ	≦ 1.5 time	es of the initial limit							
	DC leakage current	akage 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)								
	$ an \delta$	≦ 1.5 time	es of the initial limit							
	DC leakage current	DC leakage current ≤ 3 times of the initial limit								

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





Panasonic Conductive Polymer Tantalum Solid Capacitors

Characteristics list																	
			Category voltage (V.DC)	Category	Rated capacitance (µF)	Case size (mm)			Specifications			Standard		Floor life			
Series						L	W	Н	code	Ripple*1 current (mAr.m.s.)	ESR *2 (mΩ max.)		LC*4 (µA)	Part number	Min. Packaging Q'ty (pcs)	Reflow Temp ≤ 260°C	Reflow Temp ≤ 250°C
2. TPF	2	105	2.0	105	220	7.3	4.3	1.8	D2E	4700	6	0.10	88.0	2TPF220M6	3000	_	2a
		105	2.0	105	330	7.3	4.3	1.8	DZE	4700	6	0.10	132.0	2TPF330M6	3000		
		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		
	2.5	105	2.5	105	680	7.3	4.3	2.8	D3L	4400	6	0.10	170.0	2R5TPF680M6L	2500		
		105	2.5	105		7.3	4.3	2.8		4400	7	0.10	170.0		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		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 δ (120 Hz/+20 °C) *4 After 5 minutes

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



Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications use before you use our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

<Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.