OS-CON

Surface Mount Type

Series : SVPF

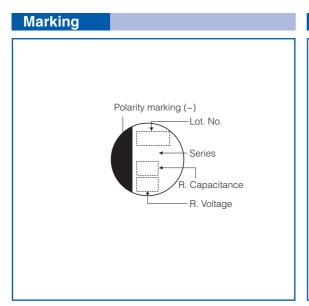


Features

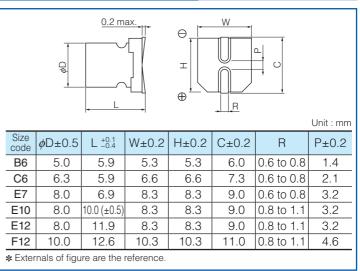
- High voltage (50 V.DC max.)
- Large capacitance (1000 µF max.)
- 105 °C 5000 h
- RoHS compliance, Halogen free

Specifications

Size code	B6	C6	E7	E10	E12	F12			
Category temperature range	–55 °C to +105 °C								
Rated voltage range	16 V.DC to 25 V.DC	16 V.DC t	o 50 V.DC	16 V.DC	16 V.DC to 50 V.DC				
Rated capacitance range	27 µF to 82 µF	10 µF to 180 µF	18 µF to 270 µF	560 µF	39 µF to 560 µF	68 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								
Endurance	+105 °C, 5000 h, rated voltage applied								
	Capacitance change Within ±20 % of the initial value								
	tan δ	≦ 150 %	≤ 150 % of the initial limit						
	DC leakage current Within the initial limit								
	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage								
Damp heat (Steady State)	Capacitance cha	nange Within ±20 % of the initial value							
	tan δ	≦ 150 %	≤ 150 % of the initial limit						
	DC leakage cu	rrent Within the initial limit (after voltage processing)							



Dimensions (not to scale)



Panasonic Conductive Polymer Aluminum Solid Capacitors

Characteristics list											
	Deter	Datad	Case siz	Case size (mm)		Specifications				Standard (Reel size : ϕ 380)	
Series	Rated voltage (V.DC)	Rated capacitance (µF)	φD	L	Size code	Ripple ^{*1} current (mAr.m.s.)	ESR *2 (mΩ max.)	tan δ^{*^3}	LC *4 (µA)	Part number	Min. Packaging Q'ty (pcs)
	16	82	5.0	5.9	B6	3000	27	0.12	262	16SVPF82M	1500
		180	6.3	5.9	C6	3300	22	0.12	576	16SVPF180M	1000
		270	8.0	6.9	E7	3300	22	0.12	864	16SVPF270M	1000
	16 NE	₩ 560	8.0	10.0	E10	3900	18	0.12	1792	16SVPF560MX	500
		500	8.0	11.9	E12	4950	14	0.12	1792	16SVPF560M	400
		1000	10.0	12.6	F12	5400	12	0.12	3200	16SVPF1000M	400
		56	5.0	5.9	B6	2800	30	0.12	224	20SVPF56MX	1500
		120	6.3	5.9	C6	3200	25	0.12	480	20SVPF120M	1000
	20	180	8.0	6.9	E7	3200	25	0.12	720	20SVPF180M	1000
		390	8.0	11.9	E12	4950	14	0.12	1560	20SVPF390M	400
		560	10.0	12.6	F12	5400	12	0.12	2240	20SVPF560M	400
	25	27	5.0	5.9	B6	2450	40	0.12	135	25SVPF27MX	1500
SVPF		47	6.3	5.9	C6	2800	30	0.12	235	25SVPF47M	1000
		56	6.3	5.9		2800	30	0.12	280	25SVPF56M	1000
		82	8.0	6.9	E7	3000	28	0.12	410	25SVPF82M	1000
		100	8.0	6.9		3200	24	0.12	500	25SVPF100M	1000
		180	8.0	11.9	E12	4650	16	0.12	900	25SVPF180M	400
		330	10.0	12.6	F12	5000	14	0.12	1650	25SVPF330M	400
		22	6.3	5.9	C6	2600	35	0.12	154	35SVPF22M	1000
	35	39	8.0	6.9	E7	2800	30	0.12	273	35SVPF39M	1000
		82	8.0	11.9	E12	4000	20	0.12	574	35SVPF82M	400
		120	10.0	12.6	F12	4400	18	0.12	840	35SVPF120M	400
	50	10	6.3	5.9	C6	2500	40	0.12	100	50SVPF10M	1000
		18	8.0	6.9	E7	2700	35	0.12	180	50SVPF18M	1000
		39	8.0	11.9	E12	3800	25	0.12	390	50SVPF39M	400
		68	10.0	12.6	F12	4300	20	0.12	680	50SVPF68M	400

*1 Ripple current (100 kHz/ +105 °C), *2 ESR (100 kHz to 300 kHz/+20 °C) *3 tan δ (120 Hz/+20 °C) *4 After 2 minutes

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

Frequency correction factor for ripple current								
Frequency	120 Hz ≦ f < 1 kHz	1 kHz ≦ f < 10 kHz	10 kHz ≦ f < 100 kHz	100 kHz ≦ f < 500 kHz				
Coefficient	0.05	0.3	0.7	1				

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.
- 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.