

Surface Mount Type SVPF series



OS-CON

UPGRADE

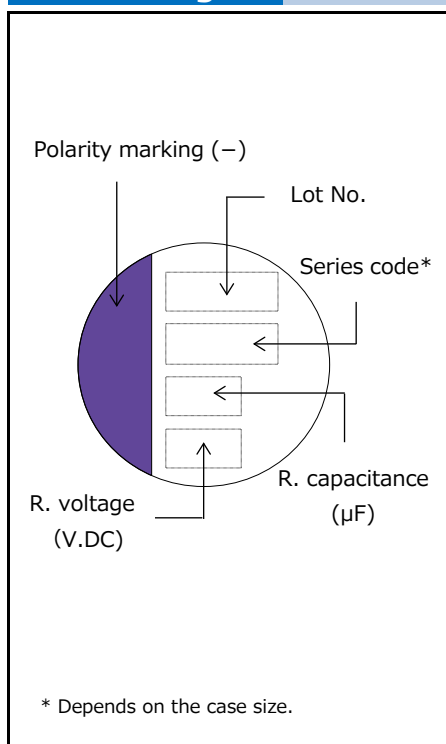
Features

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

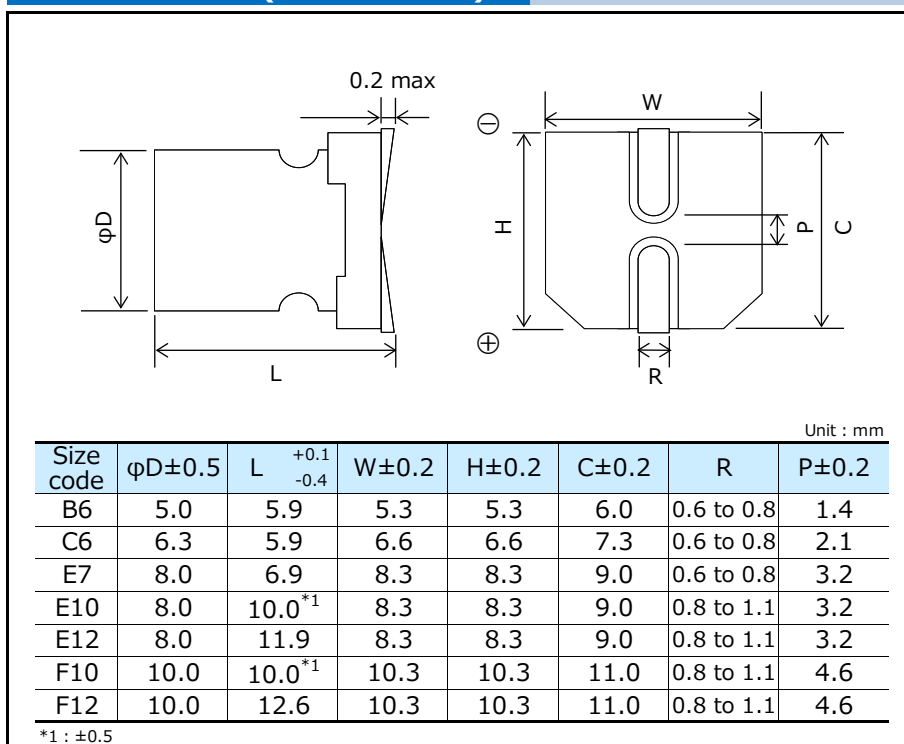
Specifications

Size code	B6	C6	E7	E10	E12	F10	F12
Category temp. range	-55 °C to +105 °C						
Rated voltage range (V.DC)	16 to 25	16 to 50		16	16 to 50	16	16 to 50
Nominal cap.range (μ F)	27 to 82	10 to 180	18 to 270	560	39 to 560	1000	68 to 1000
Capacitance tolerance	± 20 % (120 Hz / +20 °C)						
DC 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					
	Dissipation factor (tan δ)	≤ 150 % of the initial limit					
	DC leakage current	Within the initial limit					
Damp heat (Steady state)	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage						
	Capacitance change	Within ± 20 % of the initial value					
	Dissipation factor (tan δ)	≤ 150 % of the initial limit					
	DC leakage current	Within the initial limit (after voltage processing)					

Marking



Dimensions (not to scale)



Characteristics list

Rated voltage (V.DC)	Rated capacitance (±20 %) (μF)	Case size (mm)		Size code	Specifications				Standard (Reel size : φ380)	
		φD	L		Ripple current* ¹ (mA r.m.s.)	ESR* ² (mΩ)	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
	560	8.0	10.0	E10	3900	18	0.12	1792	16SVPF560MX	500
		8.0	11.9	E12	4950	14	0.12	1792	16SVPF560M	400
	NEW 1000	10.0	10.0	F10	4300	16	0.12	3200	16SVPF1000MX	500
10.0		12.6	F12	5400	12	0.12	3200	16SVPF1000M	400	
20	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
	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
	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
35	22	6.3	5.9	C6	2600	35	0.12	154	35SVPF22M	1000
	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 catalog for "Reflow conditions" and "Taping specifications".

Frequency correction factor for ripple current

Frequency(f)	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

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