Panasonic Conductive Polymer Aluminum Solid Capacitors

Radial Lead Type

OS-CON



Series: SEPF

Features

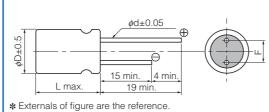
- High voltage (35 V.DC max.)
- Large capacitance (1000 µF max.)
- RoHS compliance, Halogen free

Specifications							
Size code	C55	C6	E7	E12	F13		
Category temperature range	−55 °C to +105 °C						
Rated voltage range	16 V.DC to 32 V.DC 16 V.DC to 35 V.DC						
Rated capacitance range	22 μF to 150 μF	22 μF to 180 μF	39 μF to 270 μF	82 μF to 560 μF	120 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						
	+105 °C, 5000 h, rated voltage applied						
Endurance	Capacitance change	ange Within ±20 % of the initial value					
Liturance	tan δ	≤ 150 % of the initial limit					
	DC leakage current Within the initial limit						
	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage						
Damp heat	Capacitance change Within ±20 % of the initial value						
(Steady State)	tan δ	≤ 150 % of the initial limit					
	DC leakage current Within the initial limit (after voltage processing)						

Marking

Polarity marking (-) Lot. No R. Capacitance R. Voltage

Dimensions (not to scale)



				Unit : mm	
Size code	ϕ D±0.5	L max.	F±0.5	φd±0.05	
C55	6.3	5.5	2.5	0.45	
C6	6.3	6.0	2.5	0.5	
Е	8.0	7.0	3.5	0.5 *	
E12	8.0	12.0	3.5	0.6	
F13	10.0	13.0	5.0	0.6	
* 32SEPF68M: 0.6±0.05					

Characteristics list

Series vo	Datad	Rated capacitance (µF)	Case size (mm)			Specifications				
	Rated voltage (V.DC)		φD	L	Size code	Ripple*1 current (mAr.m.s.)	ESR *2 (m Ω max.)	tan δ^{*3}	LC* ⁴ (µA)	Part number
		150	6.3	5.5	C55	2590	30	0.12	480	16SEPF150M
16		180	6.3	6.0	C6	3300	22	0.12	576	16SEPF180M
	16	270	8.0	7.0	E7	3300	22	0.12	864	16SEPF270M
		560	8.0	12.0	E12	4950	14	0.12	1792	16SEPF560M
		1000	10.0	13.0	F13	5400	12	0.12	3200	16SEPF1000M
20		120	6.3	6.0	C6	3200	25	0.12	480	20SEPF120M
	20	180	8.0	7.0	E7	3200	25	0.12	720	20SEPF180M
	20	390	8.0	12.0	E12	4950	14	0.12	1560	20SEPF390M
		560	10.0	13.0	F13	5400	12	0.12	2240	20SEPF560M
SEPF		56	6.3	6.0	C6	2800	30	0.12	280	25SEPF56M
	25	82	8.0	7.0	E7	3000	28	0.12	410	25SEPF82M
	25	180	8.0	12.0	E12	4650	16	0.12	900	25SEPF180M
		330	10.0	13.0	F13	5000	14	0.12	1650	25SEPF330M
	32	22	6.3	5.5	C55	2400	35	0.12	140	32SEPF22M
	32	68	8.0	7.0	E7	3200	25	0.10	435	32SEPF68M
	35	22	6.3	6.0	C6	2600	35	0.12	154	35SEPF22M
		39	8.0	7.0	E7	2800	30	0.12	273	35SEPF39M
	33	82	8.0	12.0	E12	4000	20	0.12	574	35SEPF82M
		120	10.0	13.0	F13	4400	18	0.12	840	35SEPF120M

- *1 Ripple current (100 kHz/ +105 °C), *2 ESR (100 kHz to 300 kHz/+20 °C) *3 $\tan \delta$ (120 Hz/+20 °C) *4 After 2 minutes
- ◆ Please refer to each page in this catarog for "Flow 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				



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