EN: This Datasheet/Document is presented by the manufacturer.

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Radial Lead Type

OS-CON

Series : **SEPF**



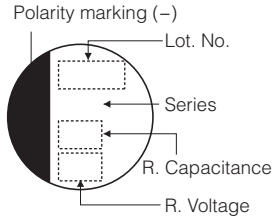
Features

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

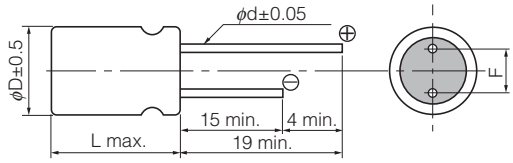
Specifications

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				
Endurance	+105 °C, 5000 h, rated voltage applied				
	Capacitance change	Within ±20 % of the initial value			
	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			
	tan δ	≦ 150 % of the initial limit			
	DC leakage current	Within the initial limit (after voltage processing)			

Marking



Dimensions (not to scale)



✻ Externals of figure are the reference.

Unit : mm

Size code	ϕD±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
E	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	Rated voltage (V.DC)	Rated capacitance (µF)	Case size (mm) ϕD	Case size (mm) L	Size code	Specifications Ripple *1 current (mArm.s.)	Specifications ESR *2 (mΩ max.)	Specifications tan δ *3	Specifications LC *4 (µA)	Part number
SEPF	16	150	6.3	5.5	C55	2590	30	0.12	480	16SEPF150M
		180	6.3	6.0	C6	3300	22	0.12	576	16SEPF180M
		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
		180	8.0	7.0	E7	3200	25	0.12	720	20SEPF180M
		390	8.0	12.0	E12	4950	14	0.12	1560	20SEPF390M
		560	10.0	13.0	F13	5400	12	0.12	2240	20SEPF560M
	25	56	6.3	6.0	C6	2800	30	0.12	280	25SEPF56M
		82	8.0	7.0	E7	3000	28	0.12	410	25SEPF82M
		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
		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
		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 δ (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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Panasonic

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