

Radial lead  
type

# SEPF Series



- High voltage (35 V max.)
- Large capacitance (1,000  $\mu\text{F}$  max.)
- RoHS compliance, Halogen free

## Specifications

Items	Specifications				
Size code	C55	C6	E7	E12	F13
Category temperature range	-55 to +105 °C				
Rated voltage range	16 to 35 V.DC				
Rated capacitance range	22 to 150 $\mu\text{F}$	22 to 180 $\mu\text{F}$	39 to 270 $\mu\text{F}$	82 to 560 $\mu\text{F}$	120 to 1000 $\mu\text{F}$
Capacitance tolerance	$\pm 20\%$ (120 Hz/+20 °C)				
Leakage current	Please see the attached characteristics list				
Dissipation factor ( $\tan \delta$ )	Please see the attached characteristics list				
Endurance	105 °C, 5,000 h, rated voltage applied				
	$\Delta C/C$	Within $\pm 20\%$ of the initial value			
	DF	$\leq 1.5$ times of the initial limit			
	LC	Within the initial limit			
Damp heat (Steady State)	60 °C, 90 to 95 %RH, 1,000 h, No-applied voltage				
	$\Delta C/C$	Within $\pm 20\%$ of the initial value			
	DF	$\leq 1.5$ times of the initial limit			
	LC	Within the initial limit (after voltage processing)			

## Marking and dimensions

Size code	$\phi D \pm 0.5$	L max	F	$\phi d \pm 0.05$
C55	6.3	5.5	$2.5 \pm 0.5$	0.45
C6	6.3	6.0	$2.5 \pm 0.5$	0.5
E7	8.0	7.0	$3.5 \pm 0.5$	$0.5^*$
E12	8.0	12.0	$3.5 \pm 0.5$	0.6
F13	10.0	13.0	$5.0 \pm 0.5$	0.6

\* 32SEPF68M  $\phi d = 0.6 \pm 0.05$

(unit : mm)

## Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance ( $\mu\text{F}$ )	Case size (mm)		Size code	Specifications				Part number
			$\phi D$	L		Rated ripple current (mA rms) $\times 1$	ESR $\times 2$ (m $\Omega$ max.)	$\tan \delta \times 3$	LC $\times 4$ ( $\mu\text{A}$ )	
SEPF	16	150	6.3	5.5	C55	2590	30	0.12	480.0	16SEPF150M
		180	6.3	6.0	C6	3300	22	0.12	576.0	16SEPF180M
		270	8.0	7.0	E7	3300	22	0.12	864.0	16SEPF270M
		560	8.0	12.0	E12	4950	14	0.12	1792.0	16SEPF560M
		1000	10.0	13.0	F13	5400	12	0.12	3200.0	16SEPF1000M
	20	120	6.3	6.0	C6	3200	25	0.12	480.0	20SEPF120M
		180	8.0	7.0	E7	3200	25	0.12	720.0	20SEPF180M
		390	8.0	12.0	E12	4950	14	0.12	1560.0	20SEPF390M
		560	10.0	13.0	F13	5400	12	0.12	2240.0	20SEPF560M
	25	56	6.3	6.0	C6	2800	30	0.12	280.0	25SEPF56M
		82	8.0	7.0	E7	3000	28	0.12	410.0	25SEPF82M
		180	8.0	12.0	E12	4650	16	0.12	900.0	25SEPF180M
		330	10.0	13.0	F13	5000	14	0.12	1650.0	25SEPF330M
	32	22	6.3	5.5	C55	2400	35	0.12	140.0	32SEPF22M
		68	8.0	7.0	E7	3200	25	0.10	435.0	32SEPF68M
	35	22	6.3	6.0	C6	2600	35	0.12	154.0	35SEPF22M
39		8.0	7.0	E7	2800	30	0.12	273.0	35SEPF39M	
82		8.0	12.0	E12	4000	20	0.12	574.0	35SEPF82M	
		120	10.0	13.0	F13	4400	18	0.12	840.0	35SEPF120M

$\times 1$ : Rated ripple current (100 kHz/ +105 °C),  $\times 2$ : ESR (100 kHz to 300 kHz/+20 °C)  $\times 3$ :  $\tan \delta$  (120 Hz/+20 °C)  $\times 4$ : After 2 minutes

◆ Please refer to each page in this catalog for "Flow conditions" and "Packing specifications".

## Frequency Correction factor for ripple current

Frequency	120 Hz $\leq f < 1$ kHz	1 kHz $\leq f < 10$ kHz	10 kHz $\leq f < 100$ kHz	100 kHz $\leq f \leq 500$ kHz
Coefficient	0.05	0.3	0.7	1