



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Radial Lead Type



Series : **SEPF**

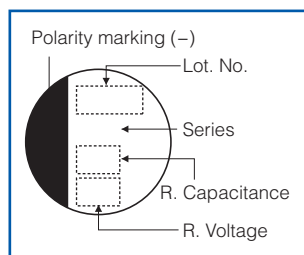
### Features

- High voltage (35 V.DC max.)
- Large capacitance (1000  $\mu$ F max.)
- RoHS compliance, Halogen free

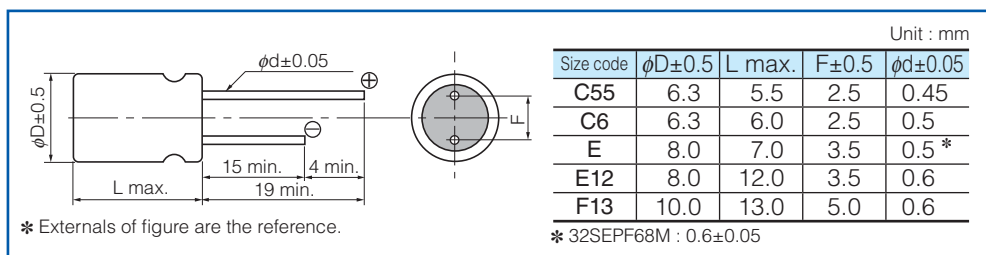
### Specifications

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 $\mu$ F to 150 $\mu$ F	22 $\mu$ F to 180 $\mu$ F	39 $\mu$ F to 270 $\mu$ F	82 $\mu$ F to 560 $\mu$ F	120 $\mu$ F to 1000 $\mu$ 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, 5000 h, rated voltage applied				
	Capacitance change	Within $\pm$ 20 % of the initial value			
	tan $\delta$	$\leq$ 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 $\pm$ 20 % of the initial value			
	tan $\delta$	$\leq$ 150 % of the initial limit			
	DC leakage current	Within the initial limit (after voltage processing)			

### Marking



### Dimensions (not to scale)



### Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance ( $\mu$ F)	Case size (mm)		Size code	Specifications				Part number
			$\phi$ D	L		Ripple current* <sup>1</sup> (mAr.m.s.)	ESR* <sup>2</sup> (m $\Omega$ max.)	tan $\delta$ * <sup>3</sup>	LC* <sup>4</sup> ( $\mu$ A)	
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
	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	

\*<sup>1</sup> Ripple current (100 kHz/ +105 °C), \*<sup>2</sup> ESR (100 kHz to 300 kHz/+20 °C) \*<sup>3</sup> tan  $\delta$  (120 Hz/+20 °C) \*<sup>4</sup> After 2 minutes

◆ Please refer to each page in this catalog for "Flow conditions" and "Taping 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 < 500 kHz
Coefficient	0.05	0.3	0.7	1

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.

Should a safety concern arise regarding this product, please be sure to contact us immediately.