

## Radial Lead Type SEK series



OS-CON

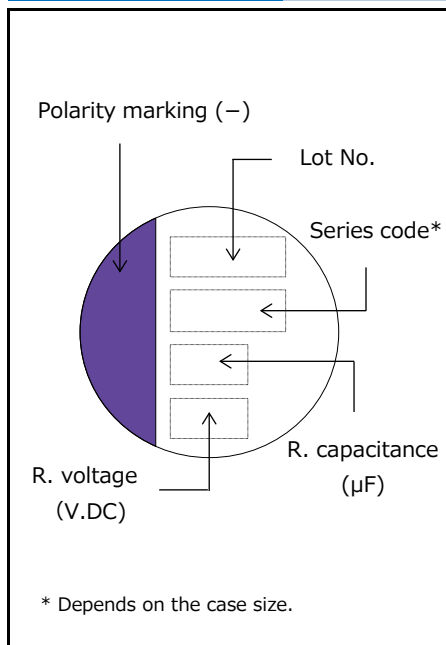
### Features

- High voltage (50 V.DC max.)
- 125 °C 1000 h
- RoHS compliance, Halogen free

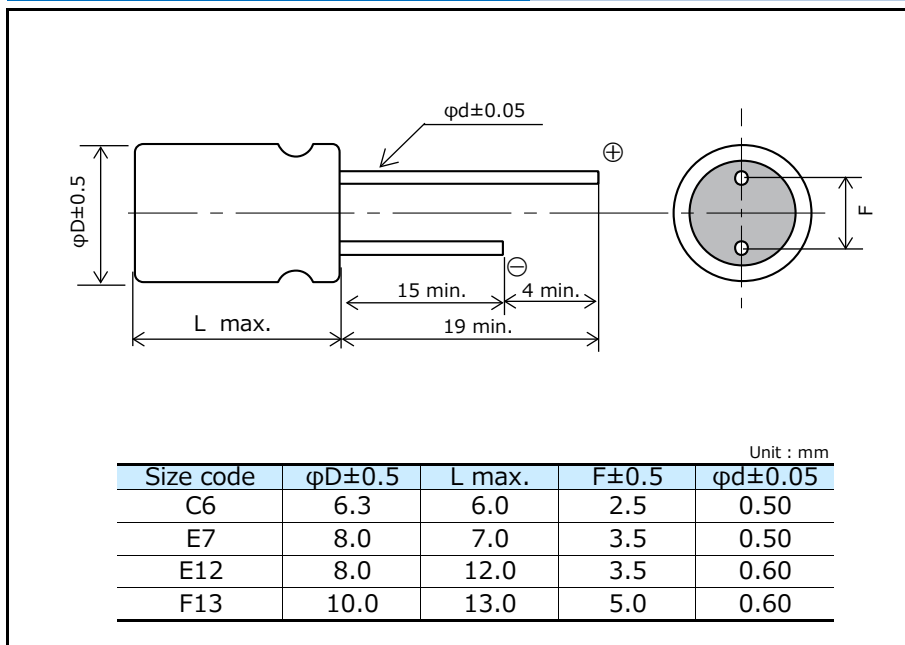
### Specifications

Size code	C6	E7	E12	F13
Category temp. range	-55 °C to +125 °C			
Rated voltage range	25 V.DC to 50 V.DC			
Nominal cap.range	22 μF to 82 μF	33 μF to 120 μF	68 μF to 270 μF	120 μF to 470 μF
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	+125 °C 1000 h, rated voltage applied			
	Capacitance change	Within ±20 % of the initial value		
	Dissipation factor (tanδ)	≤ 200 % 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 (tanδ)	≤ 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					Part number
		φD	L		Ripple current* <sup>1</sup> (mA r.m.s.)	Allowable ripple current* <sup>1</sup> (mA r.m.s.)	ESR* <sup>2</sup> (mΩ)	tan δ* <sup>3</sup>	LC* <sup>4</sup> (μA)	
25	82	6.3	6.0	C6	960	3060	25	0.12	410	25SEK82M
	120	8.0	7.0	E7	1010	3200	24	0.12	600	25SEK120M
	270	8.0	12.0	E12	1470	4650	16	0.12	1350	25SEK270M
	470	10.0	13.0	F13	1590	5000	14	0.12	2350	25SEK470M
35	47	6.3	6.0	C6	930	2950	27	0.12	329	35SEK47M
	82	8.0	7.0	E7	960	3060	25	0.12	574	35SEK82M
	180	8.0	12.0	E12	1260	4000	20	0.12	1260	35SEK180M
	330	10.0	13.0	F13	1390	4400	18	0.12	2310	35SEK330M
50	22	6.3	6.0	C6	820	2600	35	0.12	220	50SEK22M
	33	8.0	7.0	E7	850	2700	35	0.12	330	50SEK33M
	68	8.0	12.0	E12	1200	3800	25	0.12	680	50SEK68M
	120	10.0	13.0	F13	1350	4300	20	0.12	1200	50SEK120M

\*1: Ripple current (100 kHz / +105 °C < Tx ≤ +125 °C) / Allowable ripple current (100 kHz / Tx ≤ +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 "Flow 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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