

Radial Lead Type

Series : **SEK**



OS-CON



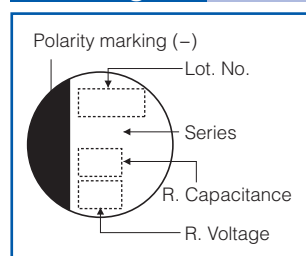
Features

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

Specifications

Size code	C6	E7	E12	F13
Category temperature range	-55 °C to +125 °C			
Rated voltage range	25 V.DC to 50 V.DC			
Rated capacitance 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)			
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		
	tan δ	≤ 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		
	tan δ	≤ 150 % of the initial limit		
	DC leakage current	Within the initial limit (after voltage processing)		

Marking



Dimensions (not to scale)

Unit : mm				
Size code	φD±0.5	L max.	F±0.5	φd±0.05
C6	6.3	6.0	2.5	0.5
E7	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

* Externals of figure are the reference.

Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (µF)	Case size (mm)		Size code	Specifications					Part number
			φD	L		Ripple* ¹ current (mAr.m.s.)	Allowable* ¹ ripple current (mAr.m.s.)	ESR* ² (mΩ max.)	tan δ* ³	LC* ⁴ (µA)	
SEK	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	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

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.