Panasonic Conductive Polymer Aluminum Solid Capacitors

Radial Lead Type

OS-CON

Series: SEK



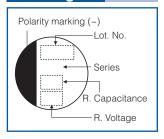


Features

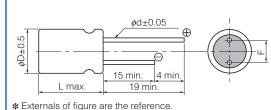
- High voltage (50 V.DC max.)
- RoHS compliance, Halogen free
- 125 °C 1000 h

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					
	+125 °C, 1000 h, rat					
Endurance	Capacitance change	apacitance change Within ±20 % of the initial value				
Lilidulatice	tan δ					
	DC leakage current Within the initial limit					
	+60 °C, 90 % to 95 %, 1000 h, No-applied voltage					
Damp heat	Capacitance change Within ±20 % of the initial value					
(Steady State)	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

Characteristics list

	Rated voltage (V.DC)	Datad	Case siz			Specifications						
Series		ge capacitance	φD	L	Size code	Ripple*1 current (mAr.m.s.)	Allowable *1 ripple current (mAr.m.s.)	$\begin{array}{c} ESR^{ *2} \\ (m\Omega max.) \end{array}$	tan δ^{*3}	LC*4 (µA)	Part number	
25 SEK 35	O.F.	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	
	25	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
	O.F.	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	
	33	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 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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