

Radial lead
type

SEPC Series



- Super low ESR (5 to 24mΩ)
- Large capacitance (2700μF max.)
- RoHS compliance, Halogen free

Specifications

Items	Specifications									
Size code	B9	C55	C6	C7	C9	E7	E9	E12	E13	F13
Category temperature range	-55 to +105 °C									
Rated voltage range	2.5 to 16 V.DC									
Rated capacitance range	100 to 560μF	220 μF	100 to 560μF	470 μF	100 to 820μF	150 to 1000μF	180 to 1000μF	180 to 270μF	470 to 820μF	470 to 700μF
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	105 °C, 5,000 h, rated voltage applied									
	ΔC/C	Within±20 % of the initial value								
	DF	≤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									
	ΔC/C	Within±20 % of the initial value								
	DF	≤1.5 times of the initial limit								
	LC	Within the initial limit (after voltage processing)								

Marking and dimensions

E12, E13, F13

B9, C55, C6, C7, C9, E7, E9

(unit : mm)

Size code	φD ±0.5	L max	F	φd ±0.05
B9	5.0	9.0	2.0±0.5	0.6
C55	6.3	5.5	2.5±0.5	0.45
C6	6.3	6.0	2.5±0.5	0.45※3
C7	6.3	7.0	2.5±0.5	0.6
C9	6.3	9.0	2.5±0.5	0.6
E7	8.0	7.0	3.5±0.5	0.6※4
E9	8.0	9.0	3.5±0.5	0.6
E12	8.0	12.0	3.5±0.5	0.6
E13	8.0	13.0	3.5±0.5	0.6
F13	10.0	13.0	5.0±0.5	0.6

※3 2SEPC390M, 2SEPC560M 0.5±0.05

※4 16SEPC150MD, 10SEPC270MD 0.45±0.05

B9, C55, C6, C7, C9, E7, E9 size flat rubber is used.

Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (μ F)	Case size (mm)		Size code	Specifications				Part number	
			ϕ D	L		Rated ripple current (mA rms) ※1	ESR ※2 (m Ω max.)	$\tan \delta$ ※3	LC ※4 (μ A)		
SEPC	2.5	100	5.0	9.0	B9	4180	7	0.10	500	2SEPC100MZ	
		330	5.0	9.0	B9	4180	7	0.10	500	2SEPC330MZ	
		390	6.3	6.0	C6	3900	10	0.12	500	2SEPC390M	
		470	5.0	9.0	B9	4180	7	0.10	500	2SEPC470MZ	
		560	5.0	9.0	B9	4180	7	0.10	500	2SEPC560MZ	
			6.3	6.0	C6	3900	10	0.12	500	2SEPC560M	
			6.3	9.0	C9	5600	7	0.10	500	2SEPC560MW	
		820	8.0	9.0	E9	4700	8	0.10	280	2SEPC560MX	
			6.3	9.0	C9	5600	7	0.10	500	2SEPC820MW	
			8.0	7.0	E7	5300	8	0.10	500	2SEPC820MD	
			8.0	9.0	E9	6100	7	0.10	500	2SEPC820MX	
		1000	8.0	9.0	E9	7200	5	0.10	500	2SEPC820MY	
	8.0		13.0	E13	6100	7	0.10	500	2R5SEPC820M		
	8.0		9.0	E9	6100	7	0.10	500	2SEPC1000MX		
	2700	10.0	13.0	F13	5560	10	0.10	1350	2SEPC2700M		
	4.0	560	6.3	9.0	C9	5600	7	0.10	500	4SEPC560MW	
			8.0	9.0	E9	6100	7	0.10	500	4SEPC560MX	
			8.0	13.0	E13	6100	7	0.10	500	4SEPC560M	
		680	8.0	13.0	E13	6100	7	0.10	544	4SEPC680M	
	820	10.0	13.0	F13	6640	7	0.10	656	4SEPC820M		
	6.3	220	6.3	5.5	C55	2980	18	0.12	280	6SEPC220M	
		470	6.3	7.0	C7	2970	20	0.10	592	6SEPC470ME	
			6.3	9.0	C9	5600	7	0.10	592	6SEPC470MW	
			8.0	9.0	E9	5700	8	0.10	592	6SEPC470MX	
			8.0	13.0	E13	5700	8	0.10	592	6SEPC470M	
		560	6.3	9.0	C9	5600	7	0.10	705	6SEPC560MW	
			8.0	9.0	E9	6100	7	0.10	705	6SEPC560MX	
		680	10.0	13.0	E13	6640	7	0.10	857	6SEPC680M	
		1000	8.0	7.0	E7	3530	18	0.10	1260	6SEPC1000MD	
		1500	10.0	13.0	F13	5560	10	0.10	1890	6SEPC1500M	
		10	270	8.0	7.0	E7	3220	22	0.12	500	10SEPC270MD
			100	6.3	6.0	C6	2490	24	0.10	320	16SEPC100M
	6.3	9.0		C9	4680	10	0.10	500	16SEPC100MW		
	150	8.0		7.0	E7	3220	22	0.12	500	16SEPC150MD	
	16	180	8.0	9.0	E9	5000	10	0.10	576	16SEPC180MX	
			8.0	12.0	E12	4360	16	0.10	576	16SEPC180M	
		220	8.0	7.0	E7	4150	13	0.10	500	16SEPC220MD	
		270	8.0	9.0	E9	5000	10	0.10	864	16SEPC270MX	
			8.0	12.0	E12	5000	11	0.10	864	16SEPC270M	
	470	10.0	13.0	F13	6100	10	0.10	1504	16SEPC470M		

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