Panasonic Conductive Polymer Aluminum Solid Capacitors

Radial Lead Type

Series: SEPC

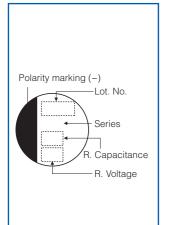


Features

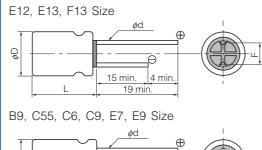
- Super low ESR (5 m Ω to 24 m Ω)
- Large capacitance (2700 µF max.)
- RoHS compliance, Halogen free

Specifications										
Size code	В9	C55	C6	C9	E7	E9	E12	E13	F13	
Category temperature range	−55 °C to +105 °C									
Rated voltage range (V.DC)	2.5	6.3	2.5 to 16		6.3 to 16	2.5 to 16	16	2.5 to 6.3	2.5 to 16	
Rated capacitance range (µF)	100 to 560	220	100 to 560	100 to 820	150 to 1000	180 to 1000	180 to 270	470 to 820	470 to 2700	
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, 5000 h, rated voltage applied									
	Capacitano	ce change	Within ±20 % of the initial value							
	tar	δ	≤ 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 ±20 % of the initial value									
	tar	tan δ \leq 150 % of the initial limit								
	DC leakac	ge current	rent Within the initial limit (after voltage processing)							

Marking



Dimensions (not to scale)



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Qφ		15 min. 4 min. 19 min.	ш

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

* Externals of figure are the reference.

				Unit : mm
Size code	φD±0.5	L max.	F±0.5	φd±0.05
B9	5.0	9.0	2.0	0.6
C55	6.3	5.5	2.5	0.45
C6	6.3	6.0	2.5	0.45 *1
C9	6.3	9.0	2.5	0.6
E7	8.0	7.0	3.5	0.6 *2
E9	8.0	9.0	3.5	0.6
E12	8.0	12.0	3.5	0.6
E13	8.0	13.0	3.5	0.6
F13	10.0	13.0	5.0	0.6

*1 2SEPC390M, 2SEPC560M: 0.5±0.05

*2 16SEPC150MD, 10SEPC270M: 0.45±0.05

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Characteristics list										
	Case size (mm)				Specifications					
Series	Rated voltage (V.DC)	Rated capacitance (µF)	φD	L	Size code	Ripple*1 current (mAr.m.s.)	ESR *2 (m Ω max.)	tan δ^{*3}	LC* ⁴ (μΑ)	Part number
		100	5.0	9.0	B9	4180	7	0.10	500	2SEPC100MZ
		330	5.0	9.0		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
			5.0	9.0		4180	7	0.10	500	2SEPC560MZ
		560	6.3	6.0	C6	3900	10	0.12	500	2SEPC560M
			6.3	9.0	C9	5600	7	0.10	500	2SEPC560MW
	2.5		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
		820	8.0	9.0	E9	6100	7	0.10	500	2SEPC820MX
			8.0	9.0		7200	5	0.10	500	2SEPC820MY
			8.0	13.0	E13	6100	7	0.10	500	2R5SEPC820M
		1000	8.0	9.0	E9	6100	7	0.10	500	2SEPC1000MX
		2700	10.0	13.0	F13	5560	10	0.10	1350	2SEPC2700M
			6.3	9.0	C9	5600	7	0.10	500	4SEPC560MW
4.0			8.0	9.0	E9	6100	7	0.10	500	4SEPC560MX
	4.0		8.0	13.0	E13	6100	7	0.10	500	4SEPC560M
		680	8.0	13.0		6100	7	0.10	544	4SEPC680M
SEPC		820	10.0	13.0	F13	6640	7	0.10	656	4SEPC820M
		6.3 <u>220</u> 470	6.3	5.5	C55	2980	18	0.12	280	6SEPC220M
			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
	6.3		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	F13	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
	16	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
		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

 $[\]pm$ 1 Ripple current (100 kHz/ +105 °C), \pm 2 ESR (100 kHz to 300 kHz/+20 °C) \pm 3 tan δ (120 Hz/+20 °C) \pm 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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