

## Radial Lead Type

# OS-CON

Series : **SEPC**



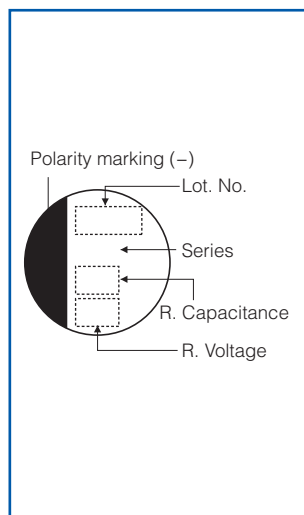
### Features

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

### Specifications

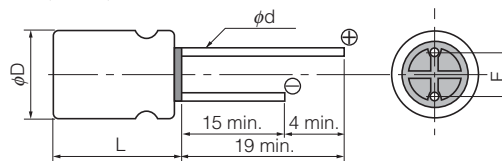
Size code	B9	C55	C6	C9	E7	E9	E12	E13	F13
Category temperature range	-55 °C to +105 °C								
Rated voltage range (V.DC)	2.5	6.3	2.5 to 16		6.3 to 16	2.5 to 16	16	2.5 to 6.3	2.5 to 16
Rated capacitance range (μF)	100 to 560	220	100 to 560	100 to 820	150 to 1000	180 to 1000	180 to 270	470 to 820	470 to 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								
	Capacitance change	Within ±20 % of the initial value							
	tan 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							
	tan δ	≤ 150 % of the initial limit							
	DC leakage current	Within the initial limit (after voltage processing)							

### Marking

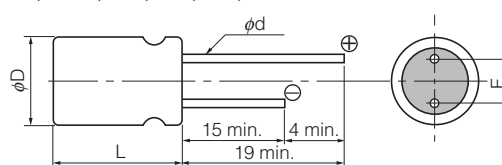


### Dimensions (not to scale)

E12, E13, F13 Size



B9, C55, C6, C9, E7, E9 Size



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

\* Externals of figure are the reference.

Size code	Unit : mm			
	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

## Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (μF)	Case size (mm)		Size code	Specifications				Part number
			φD	L		Ripple* <sup>1</sup> current (mA r.m.s.)	ESR* <sup>2</sup> (mΩ max.)	tan δ* <sup>3</sup>	LC* <sup>4</sup> (μA)	
SEPC	2.5	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
		560	5.0	9.0		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
			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	
	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		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
			6.3	9.0	C9	5600	7	0.10	592	6SEPC470MW
		470	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	F13	6640	7	0.10	857
		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		

\*1 Ripple current (100 kHz/ +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

## Guidelines and precautions regarding the technical information and use of our products described in this online catalog.

- If you want to use our products described in this online catalog for applications requiring special qualities or reliability, or for applications where the failure or malfunction of the products may directly jeopardize human life or potentially cause personal injury (e.g. aircraft and aerospace equipment, traffic and transportation equipment, combustion equipment, medical equipment, accident prevention, anti-crime equipment, and/or safety equipment), it is necessary to verify whether the specifications of our products fit to such applications. Please ensure that you will ask and check with our inquiry desk as to whether the specifications of our products fit to such applications use before you use our products.
- The quality and performance of our products as described in this online catalog only apply to our products when used in isolation. Therefore, please ensure you evaluate and verify our products under the specific circumstances in which our products are assembled in your own products and in which our products will actually be used.
- If you use our products in equipment that requires a high degree of reliability, regardless of the application, it is recommended that you set up protection circuits and redundancy circuits in order to ensure safety of your equipment.
- The products and product specifications described in this online catalog are subject to change for improvement without prior notice. Therefore, please be sure to request and confirm the latest product specifications which explain the specifications of our products in detail, before you finalize the design of your applications, purchase, or use our products.
- The technical information in this online catalog provides examples of our products' typical operations and application circuits. We do not guarantee the non-infringement of third party's intellectual property rights and we do not grant any license, right, or interest in our intellectual property.
- If any of our products, product specifications and/or technical information in this online catalog is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially with regard to security and export control, shall be observed.

## <Regarding the Certificate of Compliance with the EU RoHS Directive/REACH Regulations>

- The switchover date for compliance with the RoHS Directive/REACH Regulations varies depending on the part number or series of our products.
- When you use the inventory of our products for which it is unclear whether those products are compliant with the RoHS Directive/REACH Regulation, please select "Sales Inquiry" in the website inquiry form and contact us.

**We do not take any responsibility for the use of our products outside the scope of the specifications, descriptions, guidelines and precautions described in this online catalog.**

---