

OS-CON
OS-CON Line-up
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Catalog Deletion and EOL series

Radial lead type

SXE Series

NEW



RoHS directive/Halogen-free compliant
Super high voltage (100V)
Endurance: 105°C 5,000h

Specifications

Items	Condition	Specifications		
Rated voltage (V)	—	63	100	
Surge voltage (V)	—	72.5	115.0	
Category temperature range (°C)	—	-55 to +105		
Capacitance tolerance (%)	120Hz/20°C	M: ±20		
Dissipation Factor (DF)	120Hz/20°C	Please see the attached characteristics list		
Leakage current*1	Rated voltage applied, after 2 minutes	Please see the attached characteristics list		
Equivalent series resistance (ESR)	100kHz to 300kHz/20°C	Please see the attached characteristics list		
Characteristics of impedance ratio at high temp. and low temp.	Based the value at 100kHz, +20°C	-55°C	Z/Z20°C	0.75 to 1.25
		+105°C	Z/Z20°C	0.75 to 1.25
Endurance	105°C, 5,000h, Rated voltage applied	ΔC/C	Within ±20% of the initial value	
		tan δ	Within 1.5 times of the initial limit	
		ESR	Within 1.5 times of the initial limit	
		LC	Within the initial limit	
Damp heat (Steady state)	60°C, 90 to 95%RH, 1,000h, No applied voltage	ΔC/C	Within ±20% of the initial value	
		tan δ	Within 1.5 times of the initial limit	
		ESR	Within 1.5 times of the initial limit	
		LC	Within the initial limit (after voltage processing)	
Resistance to soldering heat*2	Flow method (260±5°C X 10s)	ΔC/C	Within ±5% of the initial value	
		tan δ	Within 1.3 times of the initial limit	
		ESR	Within 1.3 times of the initial limit	
		LC	Within the initial limit (after voltage processing)	

*1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

*2 Please refer to page 25 for reflow soldering conditions.

Marking and dimensions

Size code	φD ±0.5	L max	F	φd ±0.05
E12	8.0	12.0	3.5±0.3	0.6

Size list

RV: Rated voltage

μF	RV	63	100
15			E12
33	E12		

SXE series characteristics list

Size code	Part number	Rated voltage (V)	Rated capacitance (μF)	ESR(mΩ) (max) 100kHz to 300kHz/20°C	Rated ripple current 100kHz (mA rms) at 105°C	DF (% max)	Leakage current (μA) (max) After 2 minutes
E12	63SXE33M	63	33	25	2950	12	104
	100SXE15M	100	15	40	2350	12	75

Frequency coefficient for ripple current

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f ≤ 500kHz
Coefficient	0.05	0.3	0.7	1