Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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Radial Lead Type

Series : **SXE**

OS-CON

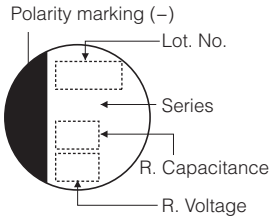
Features

- Super high voltage (100 V.DC max.)
- RoHS compliance, Halogen free

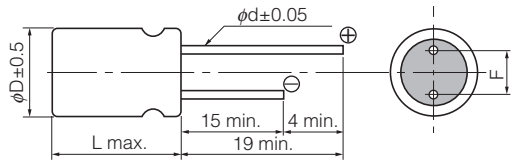
Specifications

Size code	E7	F8	E12	F13
Category temperature range	–55 °C to +125 °C			
Rated voltage range	63 V.DC to 100 V.DC			
Rated capacitance range	6.8 µF to 18 µF	15 µF to 39 µF	15 µF to 39 µF	18 µF to 68 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			
Endurance	+125 °C, 1000 h, rated voltage applied			
	Capacitance change	Within ±20 % of the initial value		
	tan δ	≦ 200 % 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)



Unit : mm

Size code	ϕD±0.5	L max.	F±0.5	ϕd±0.05
E7	8.0	7.0	3.5	0.45
F8	10.0	8.0	5.0	0.50
E12	8.0	12.0	3.5	0.60
F13	10.0	13.0	5.0	0.60

✻ Externals of figure are the reference.

Characteristics list

Series	Rated voltage (V.DC)	Rated capacitance (μF)	Case size (mm) φD	Case size (mm) L	Size code	Specifications Ripple *1 current (mAr.m.s.)	Specifications Allowable *1 ripple current (mAr.m.s.)	Specifications ESR *2 (mΩ max.)	Specifications tan δ *3	Specifications LC *4 (μA)	Part number
SXE	63	NEW 18	8.0	7.0	E7	340	1100	60	0.12	56	63SXE18M
		33	8.0	12.0	E12	930	2950	25	0.12	104	63SXE33M
		NEW 39	8.0	12.0	E12	930	2950	25	0.12	122	63SXE39M
		NEW	10.0	8.0	F8	690	2190	50	0.12	122	63SXE39MX
		NEW 68	10.0	13.0	F13	1030	3280	25	0.12	214	63SXE68M
	80	NEW 12	8.0	7.0	E7	340	1100	60	0.12	48	80SXE12M
		NEW 27	8.0	12.0	E12	780	2490	35	0.12	108	80SXE27M
		NEW	10.0	8.0	F8	660	2080	55	0.12	108	80SXE27MX
		NEW 47	10.0	13.0	F13	980	3100	28	0.12	188	80SXE47M
	100	NEW 6.8	8.0	7.0	E7	340	1100	60	0.12	34	100SXE6R8M
		NEW 15	10.0	8.0	F8	630	2000	60	0.12	75	100SXE15MX
			8.0	12.0	E12	730	2350	40	0.12	75	100SXE15M
		NEW 18	10.0	13.0	F13	940	3000	30	0.12	90	100SXE18M
		NEW 22	10.0	13.0		940	3000	30	0.12	110	100SXE22M

✻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 “Reflow 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