Radial Lead Type
SXE series

OS-CON

UPGRADE

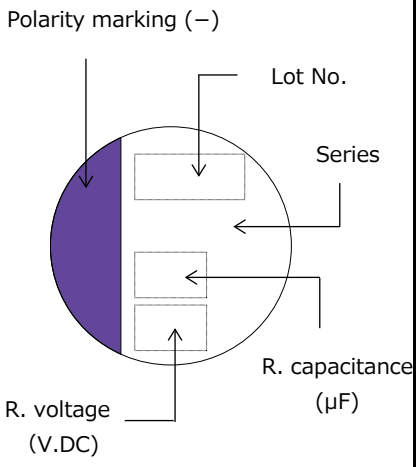
Features

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

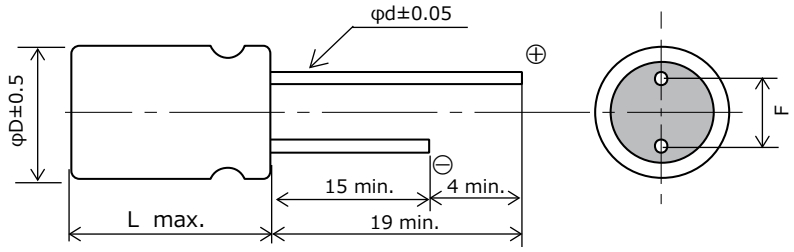
Specifications

Size code	E7	F8	E12	F13
Category temp. range	−55 ℃ to +125 ℃			
Rated voltage range	63 V.DC to 100 V.DC			
Nominal cap.range	6.8 μF to 18 μF	15 μF to 39 μF	15 μF to 56 μF	18 μF to 100 μF
Capacitance tolerance	±20 % (120 Hz / +20 ℃)			
DC leakage current	Please see the attached characteristics list			
Dissipation factor (tan δ)	Please see the attached characteristics list			
Endurance	+125 ℃ 1000 h, rated voltage applied			
	Capacitance change	Within ±20 % of the initial value		
	Dissipation factor (tanδ)	≦ 200 % of the initial limit		
	DC leakage current	Within the initial limit		
Damp heat (Steady state)	+60 ℃, 90 % to 95 %, 1000 h, No-applied voltage			
	Capacitance change	Within ±20 % of the initial value		
	Dissipation factor (tanδ)	≦ 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

Characteristics list

Rated volt. (V.DC)	Rated cap. (±20 %) (μF)	Case size (mm) φD	Case size (mm) L	Size code	Specifications: Ripple current*1 (mA r.m.s.)	Specifications: Allowable ripple current*1 (mA r.m.s.)	Specifications: ESR*2 (mΩ)	Specifications: tan δ*3	Specifications: LC*4 (μA)	Part number
63	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
	39	8.0	12.0	E12	930	2950	25	0.12	122	63SXE39M
		10.0	8.0	F8	690	2190	50	0.12	122	63SXE39MX
NEW	56	8.0	12.0	E12	930	2950	25	0.12	176	63SXE56M
	68	10.0	13.0	F13	1030	3280	25	0.12	214	63SXE68M
NEW	100	10.0	13.0	F13	1030	3280	25	0.12	315	63SXE100M
80	12	8.0	7.0	E7	340	1100	60	0.12	48	80SXE12M
	27	8.0	12.0	E12	780	2490	35	0.12	108	80SXE27M
		10.0	8.0	F8	660	2080	55	0.12	108	80SXE27MX
NEW	33	8.0	12.0	E12	780	2490	35	0.12	132	80SXE33M
	47	10.0	13.0	F13	980	3100	28	0.12	980	80SXE47M
NEW	56	10.0	13.0	F13	980	3100	28	0.12	224	80SXE56M
100	6.8	8.0	7.0	E7	340	1100	60	0.12	34	100SXE6R8M
	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
	18	10.0	13.0	F13	940	3000	30	0.12	90	100SXE18M
NEW		8.0	12.0	E12	730	2350	40	0.12	90	100SXE18MX
	22	10.0	13.0	F13	940	3000	30	0.12	110	100SXE22M
NEW	27	10.0	13.0	F13	940	3000	30	0.12	135	100SXE27M

*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 ℃）
*3: tan δ (120 Hz / +20 ℃)
*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(f)	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

Panasonic

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