

Surface Mount Type **SP-Cap**

Series : **LX (Low ESR / Low ESL Products)**



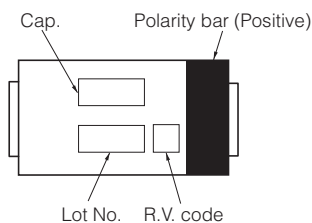
Features

- Large capacitance (560 μ F max.)
- Low ESR (4.5 m Ω , 6 m Ω)
- Low ESL (3-terminals : 50 % less than 2-terminals)
- High ripple current (8500 mAr.m.s. max.)
- RoHS compliance, Halogen free

Specifications

Series	LX	
Category temp. range	-55 °C to +105 °C	
Rated voltage range	2 V.DC to 2.5 V.DC	
Nominal cap.range	330 μ F to 560 μ F	
Capacitance tolerance	\pm 20 % (120 Hz/+20 °C)	
DC leakage current	$I \leq 0.1 CV$ (μ A) 2 minutes	
Dissipation factor (tan δ)	≤ 0.06 (120 Hz/+20 °C)	
Surge voltage (V.DC)	Rated voltage \times 1.25 (15 °C to 35 °C)	
Endurance	+105 °C, 2000 h, rated voltage applied	
	Capacitance change	Within \pm 20 % of the initial value
	tan δ	≤ 2 times of the initial limit
	DC leakage current	≤ 3 times of the initial limit
Damp heat (Steady state)	+60 °C, 90 %, 500 h, No-applied voltage	
	Capacitance change of initial measurd value	2 V.DC to 2.5 V.DC +70 %, -20 %
	tan δ	≤ 2 times of the initial limit
	DC leakage current	Within the initial limit

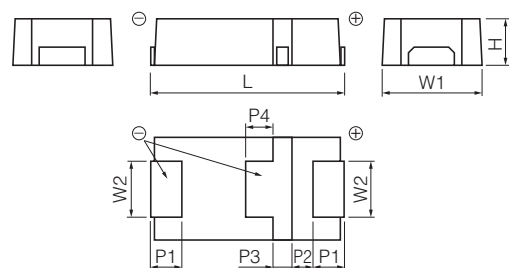
Marking



Rated voltage mark

d	2 V.DC
e	2.5 V.DC

Dimensions (not to scale)



Unit : mm

Series	L \pm 0.2	W1 \pm 0.2	W2 \pm 0.1	H \pm 0.1	P1 \pm 0.3	P2 \pm 0.1	P3 \pm 0.2	P4 \pm 0.2
LX	7.3	4.3	2.4	1.9	1.3	1.1	0.7	1.4

* Externals of figure are the reference.

Characteristics list

		Reflow ^{*3}		<Standard>					
Series	Rated voltage (V.DC)	Capacitance (±20%) (μF)	Case size (mm)			Specification		Part number	Min. ^{*4} Packaging Q'ty (pcs)
			L	W	H	^{*1} Ripple current (mAr.m.s.)	^{*2} ESR (mΩ max.)		
LX	2	330	7.3	4.3	1.9	7500	6	EEFLX0D331R	3500
			7.3	4.3	1.9	8500	4.5	EEFLX0D331R4	3500
		470	7.3	4.3	1.9	7500	6	EEFLX0D471R	3500
			7.3	4.3	1.9	8500	4.5	EEFLX0D471R4	3500
		560	7.3	4.3	1.9	7500	6	EEFLX0D561R	3500
			7.3	4.3	1.9	8500	4.5	EEFLX0D561R4	3500
	2.5	330	7.3	4.3	1.9	7500	6	EEFLX0E331R	3500
			7.3	4.3	1.9	8500	4.5	EEFLX0E331R4	3500
		470	7.3	4.3	1.9	7500	6	EEFLX0E471R	3500
			7.3	4.3	1.9	8500	4.5	EEFLX0E471R4	3500

*1: Ripple current (100 kHz/ +45°C), *2: ESR (100 kHz/+20 °C)

*3: Please refer to the page of "Mounting Specifications".

*4: Please contact us when 500 pcs packing is necessary.

Temperature compensation multipliers for ripple current

Temp.	$T \leq 45\text{ }^{\circ}\text{C}$	$45\text{ }^{\circ}\text{C} < T \leq 85\text{ }^{\circ}\text{C}$	$85\text{ }^{\circ}\text{C} < T \leq 105\text{ }^{\circ}\text{C}$
Coefficient	1.0	0.7	0.25