

## Surface Mount Type **SP-Cap**

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



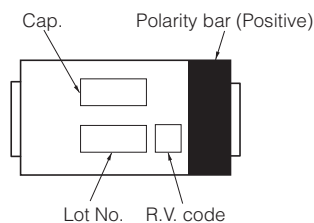
### Features

- Large capacitance (560  $\mu\text{F}$  max.)
- Low ESR (4.5  $\text{m}\Omega$ , 6  $\text{m}\Omega$ )
- Low ESL (3-terminals : 50 % less than 2-terminals)
- High ripple current (8500  $\text{mA}$ r.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 $\mu\text{F}$ to 560 $\mu\text{F}$	
Capacitance tolerance	$\pm 20\%$ (120 Hz/+20 °C)	
DC leakage current	$I \leq 0.1 \text{ CV}$ ( $\mu\text{A}$ ) 2 minutes	
Dissipation factor ( $\tan \delta$ )	$\leq 0.06$ (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
	$\tan \delta$	$\leq 2$ times of the initial limit
	DC leakage current	$\leq 3$ 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 %
	$\tan \delta$	$\leq 2$ times of the initial limit
	DC leakage current	Within the initial limit

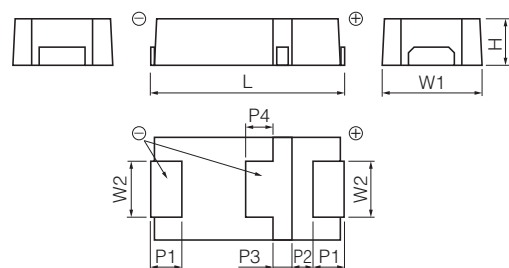
### Marking



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

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