

Surface Mount Type

SP-Cap

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



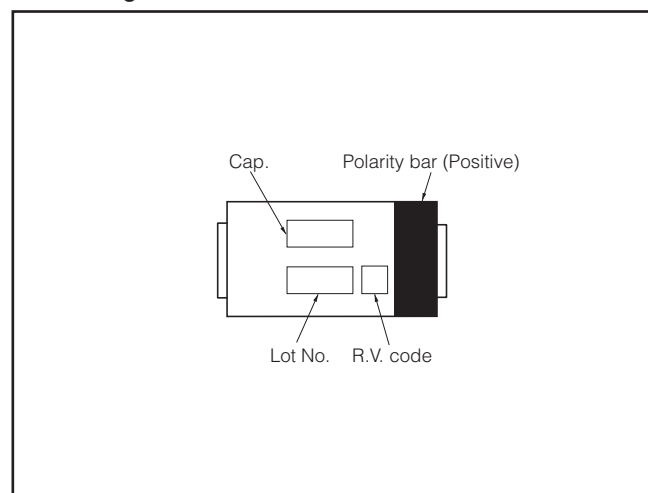
■ Features

- Large capacitance (560 μ F max.)
- Low ESR (4.5 m Ω , 6 m Ω)
- Low ESL (3-terminals : 50 % less than 2-terminals)
- RoHS directive compliant

■ Specifications

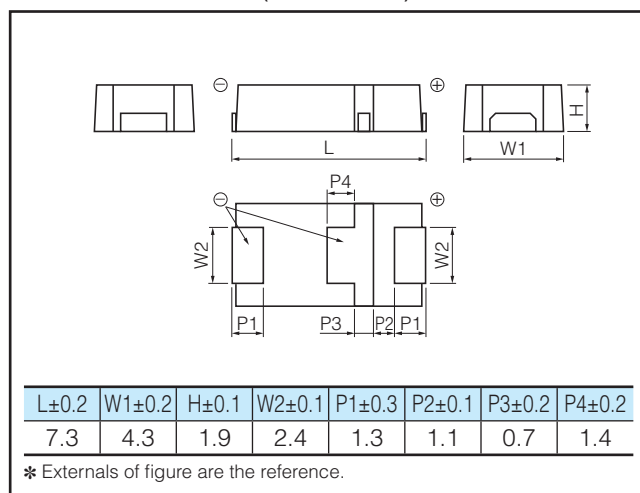
Series & Size Code	LX	
Category Temp. Range	-55 °C to +105 °C	
Rated Voltage Range	2 V.DC to 2.5 V.DC	
Nominal Cap.Range	330 μ F to 560 μ F	
Capacitance Tolerance	± 20 % (120 Hz/+20 °C)	
DC Leakage Current	$I \leq 0.1$ CV (μ A) 2 minutes	
$\tan \delta$	≤ 0.06 (120 Hz/+20 °C)	
Surge Voltage	Rated Voltage $\times$ 1.25 (15 °C to 35 °C)	
Endurance	After applying rated voltage for 2000 hours at 105 °C $\pm$ 2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.	
	Capacitance change	± 20 % of initial measured value
	$\tan \delta$	≤ 200 % of initial specified value
	DC leakage current	≤ 300 % of initial specified value
Moisture resistance	After storing for 500 hours at 60 °C, 90 %	
	Capacitance change of initial measured value	2 V.DC to 2.5 V.DC
		+70, -20 %
	$\tan \delta$	≤ 200 % of initial specified value
	DC leakage current	$\leq$ Initial specified value

■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)



■ Standard Products

Reflow *3

<Standard>

Series & Size Code	Rated Voltage (V.DC)	Capaci- tance (±20 %) (μF)	Case Size			Specification		Part number	*4 Min. Packaging Q'ty (pcs)
			L (mm)	W (mm)	H (mm)	*1 Ripple current (Ar.m.s.)	*2 ESR (mΩ max.)		
LX	2	330	7.3	4.3	1.9	7.5	6	EEFLX0D331R	3500
			7.3	4.3	1.9	8.5	4.5	EEFLX0D331R4	3500
		470	7.3	4.3	1.9	7.5	6	EEFLX0D471R	3500
			7.3	4.3	1.9	8.5	4.5	EEFLX0D471R4	3500
		560	7.3	4.3	1.9	7.5	6	EEFLX0D561R	3500
			7.3	4.3	1.9	8.5	4.5	EEFLX0D561R4	3500
	2.5	330	7.3	4.3	1.9	7.5	6	EEFLX0E331R	3500
			7.3	4.3	1.9	8.5	4.5	EEFLX0E331R4	3500
		470	7.3	4.3	1.9	7.5	6	EEFLX0E471R	3500
			7.3	4.3	1.9	8.5	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

T ≤ 45 °C	45 °C < T ≤ 85 °C	85 °C < T ≤ 105 °C
1.0	0.7	0.25

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