Surface Mount Type **SP-Cap**

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

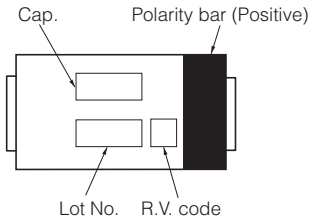
■ Features

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

■ Specifications

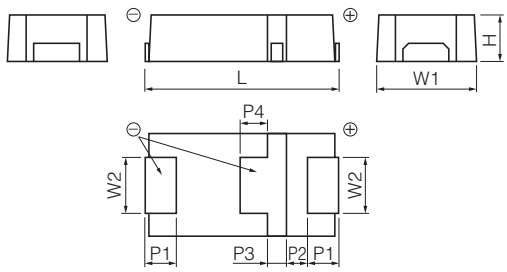
Series & Size Code	LX	
Category Temp. Range	–55 °C to +105 °C	
Rated Voltage Range	2 V.DC to 2.5 V.DC	
Nominal Cap.Range	330 µF to 560 µF	
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	I ≦ 0.1 CV (µA) 2 minutes	
tan δ	≦ 0.06 (120 Hz/+20 °C)	
Surge Voltage	Rated Voltage × 1.25 (15 °C to 35 °C)	
Endurance	After applying rated voltage for 2000 hours at 105 °C±2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.	
	Capacitance change	±20% of initial measured value
	tan δ	≦ 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 measurd value	2 V.DC to 2.5 V.DC
		+70, –20 %
	tan δ	≦ 200 % of initial specified value
	DC leakage current	≦ Initial specified value

■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)



L±0.2	W1±0.2	H±0.1	W2±0.1	P1±0.3	P2±0.1	P3±0.2	P4±0.2
7.3	4.3	1.9	2.4	1.3	1.1	0.7	1.4

✻ Externals of figure are the reference.

■ Standard Products

Reflow *3 | <Standard>

Series & Size Code	Rated Voltage (V.DC)	Capacitance (±20 %) (μF)	Case Size L (mm)	Case Size W (mm)	Case Size H (mm)	Specification *1 Ripple current (Ar.m.s.)	Specification *2 ESR (mΩ max.)	Part number	*4 Min. Packaging Q'ty (pcs)
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