Surface Mount Type **SP-Cap**

Series: **L**

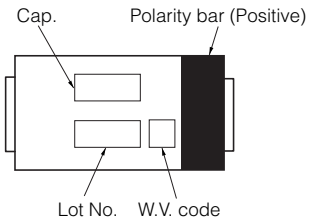
■ Features

- Low ESL by structure of SP-Cap 50% ESL of current products
- Super Low-ESR (4.5 mΩ)
- High temperature reflow soldering applicable
  (Peak : 260 °C 10s, main heating : 230 °C 40s)
- RoHS directive compliant

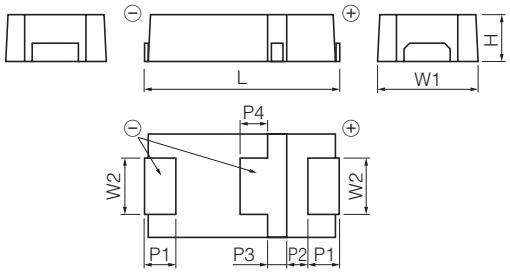
■ Specifications

Category Temp. Range	−40 °C to +105 °C	
Rated W.V.Range	2 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 Working Voltage × 1.25 (15 °C to 35 °C)	
Endurance	After applying rated working voltage for 1000 hours at 105 °C±2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.	
	Capacitance change	±10% of initial measured value
	tan δ	≦ Initial specified value
	DC leakage current	≦ Initial specified value
Moisture resistance	After storing for 500 hours at 60 °C, 90 %	
	Capacitance change of initial measurd value	2 V.DC
		+70, −20 %
	tan δ	≦ 200 % of initial specified value
	DC leakage current	≦ Initial specified value

■ Marking



■ Dimensions in mm(not to scale)



(mm)

L±0.2	W1±0.2	H±0.2	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

Series & Size Code	Rated W.V. (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 ✻3 Reflow condition : 240 °C	Part number ✻3 Reflow condition : 260 °C [Proposal]	Min. Packaging Q'ty (pcs)
LX	2	330	7.3	4.3	1.9	3.5	6	—	EEFLX0D331R	3500
			7.3	4.3	1.9	3.8	4.5	—	EEFLX0D331R4	3500
		470	7.3	4.3	1.9	3.5	6	—	EEFLX0D471R	3500
			7.3	4.3	1.9	3.8	4.5	—	EEFLX0D471R4	3500
		560	7.3	4.3	1.9	3.5	6	—	EEFLX0D561R	3500
			7.3	4.3	1.9	3.8	4.5	—	EEFLX0D561R4	3500

✻1: Ripple current (100 kHz/ +20 to +105 °C), ✻2: ESR (100 kHz/+20 °C)
✻3: Please confirm EE25 in detail of the Mouting Specifications.

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

00 Sep. 2010