Surface Mount Type **SP-Cap**

Series: **SL**

Old series

■ Features

- Low-ESR (9 mΩ)
- Excellent Noise-absorbent Characteristics
- High Ripple Current
- RoHS directive compliant

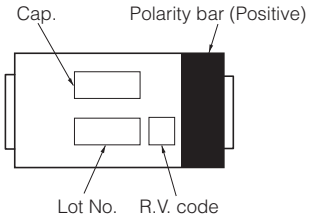
[Our Requests]

Since this series is old, we don't recommend you to adopt it but SX series for your new design.

■ Specifications

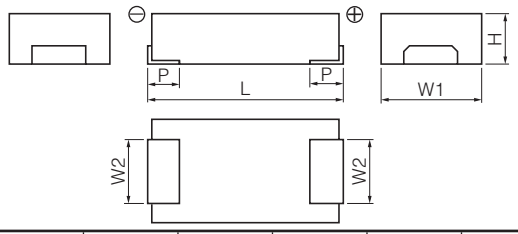
Series & Size Code	SL			
Category Temp. Range	−40 °C to +105 °C			
Rated Voltage Range	2 V.DC to 6.3 V.DC			
Nominal Cap.Range	56 µF to 220 µF			
Capacitance Tolerance	±20 %			
DC Leakage Current	Reflow 240 °C : I ≦ 0.04 CV (µA) 2 minutes (6.3 V.DC) Reflow 260 °C : I ≦ 0.1 CV (µA) 2 minutes			
tan δ	≦ 0.06 (120 Hz/+20 °C)			
Surge Voltage	Rated Voltage × 1.25 (15 °C to 35 °C)			
Endurance	After applying rated voltage for 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, 2.5 V.DC	4 V.DC	6.3 V.DC
		+70, −20 %	+60, −20 %	+50, −20 %
	tan δ	≦ 200 % of initial specified value		
	DC leakage current	≦ Initial specified value		

■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)



Series & Size Code	L±0.2	W1±0.2	W2±0.1	H	P±0.3
SL	7.3	4.3	2.4	1.8±0.1	1.3

✻ Externals of figure are the reference.

■ Low ESR Products

Reflow *3 <260 °C>

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	Reflow *4 240 °C	Reflow 260 °C	Min. Packaging Q'ty (pcs)
SL	2	100	7.3	4.3	1.8	3.0	9	EEFSL0D101ER	—	○	3500
		120	7.3	4.3	1.8	3.0	9	EEFSL0D121ER	—	○	3500
		150	7.3	4.3	1.8	3.0	9	EEFSL0D151ER	—	○	3500
		180	7.3	4.3	1.8	3.0	9	EEFSL0D181ER	—	○	3500
		220	7.3	4.3	1.8	3.0	9	EEFSL0D221ER	—	○	3500
	2.5	100	7.3	4.3	1.8	3.0	9	EEFSL0E101ER	—	○	3500
		120	7.3	4.3	1.8	3.0	9	EEFSL0E121ER	—	○	3500
		150	7.3	4.3	1.8	3.0	9	EEFSL0E151ER	—	○	3500
	4	82	7.3	4.3	1.8	3.0	9	EEFSL0G820ER	—	○	3500
	6.3	56	7.3	4.3	1.8	3.0	9	EEFSL0J560R	○	—	3500

✻1: Ripple current (100 kHz/ +20 to +105 °C), ✻2: ESR (100 kHz/+20 °C)

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

✻4: Please contact Panasonic for details of allowable 240 °C reflow condition.

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