

台 資 積 電  
tai rong smc

**LX series**  
**Features**

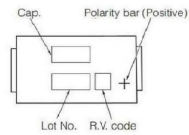
- Large capacitance (560  $\mu$ F max.)
- Low ESR(4.5 m2.6 mQ max.)
- Low ESL(3-terminals:50 %less than 2-terminals)
- High ripple current (8500 mA rms max.)
- RoHS compliance,Halogen free



**Specifications**

Series	LX	
Category Temp. range	-55 °C to +105°C	
Rated voltage range	2.0 V to 2.5 V	
Nominal cap. range	330 $\mu$ F to 560 $\mu$ F	
Capacitance tolerance	$\pm$ 20 % (120 Hz/+20 °C)	
DC leakage current	$I \leq 0.1$ CV( $\mu$ A) 2 minutes	
Dissipation factor (tan $\delta$ )	$\leq 0.06$ (120 Hz/+20 °C)	
Surge voltage (V)	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
	Dissipation factor(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	2.0 V to 2.5 V +70 %, -20%
	Dissipation factor (tan $\delta$ )	$\leq 2$ times of the initial limit
	DC leakage current	Within the initial limit

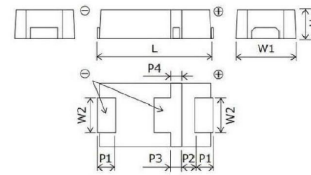
**Marking**



R. voltage code	Unit:V
d	2.0
e	2.5

**Dimensions (not to scale)**

**3 terminals**



Series	L	W1	W2	H	P1	P2	P3	P4
LX	7.3	4.3	2.4	1.9	1.3	1.1	0.7	1.4

\*Externals of figure are the reference.

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Rated voltage (V)	Capacitance (μF)	Case size(mm)			Specification		Part number	Min. Packaging Qty*1 (pcs)	Min. Packaging Qty*1 (pcs)
		L	w	H	Ripple Current* (mA rms)	ESR*2 (mΩ max.)			
2.0	330	7.3	4.3	1.9	7500	6	EEFLX0D331R	3500	750
		7.3	4.3	1.9	8500	4.5	EEFLX0D331R4	3500	750
	470	7.3	4.3	1.9	7500	6	EEFLX0D471R	3500	750
		7.3	4.3	1.9	8500	4.5	EEFLX0D471R4	3500	750
	560	7.3	4.3	1.9	7500	6	EEFLX0D561R	3500	750
2.5	330	7.3	4.3	1.9	7500	6	EEFLX0E331R	3500	750
		7.3	4.3	1.9	8500	4.5	EEFLX0E331R4	3500	750
	470	7.3	4.3	1.9	7500	6	EEFLX0E471R	3500	750
		7.3	4.3	1.9	8500	4.5	EEFLX0E471R4	3500	750

\*1:Ripple current (100 kHz/+45℃)

\*2:ESR(100 kHz/+20℃)

\*3:Please contact us when 500 pcs packing is necessary.

◆ Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".

Temperature coefficient of ripple current		
Temperature	Temperature	
2.0V to 2.5 V	$T \leq 45^\circ\text{C}$	$45^\circ\text{C} < T \leq 85^\circ\text{C}$
Coefficient	1.0	0.7
		$85^\circ\text{C} < T \leq 105^\circ\text{C}$
		0.25

◆ Ripple current should be controlled so that surface temperature of capacitor does not exceed the category temperature.