

# FL series

## Low Dissipation capacitor series

### ◆ Features

- » Low ESR and Low Tan  $\delta$
- » Excellent DC Bias
- » Provide Good Ripple Characteristic
- » Excellent Temperature Coefficient
- » RoHS & SS-00259 compliant

### ◆ Applications

- » Power supply
- » Strobe trigger circuit for digital cameras
- » Telecommunication (ADSL, Modem, Splitter)
- » Audio circuit
- » Lighting

### ◆ Part Number

FL	1206	X	102	K	101
Series	Size	Dielectric	Capacitance	Tolerance	Rated voltage
	Inch:	X: X7R	Two significant Digits followed by no. of zeros and P is in place of decimal point	J=±5%	Two significant Digits followed by no. of zeros and V is in place of decimal point
	1206			K=±10%	
	1210			M=±20%	
	1812		Eg.:		
	1825		0P47 = 0.47pF		101 = 100 VDC
	2211		0P5 = 0.5pF		251 = 250 VDC
	2220		1P0 = 1.0pF		501 = 500 VDC
			100 = $10 \times 10^0$		
			= 10pF		

### ◆ General Electrical Data

Dielectric	X7R
Size	0805, 1206, 1210, 1812, 1825, 2220
Capacitance range*	100pF ~ 1.2 $\mu$ F
Capacitance tolerance	J ( $\pm$ 5%), K ( $\pm$ 10%), M ( $\pm$ 20%)
Rated voltage (WVDC)	100V, 250V, 500V,
Tan $\delta$	$U_R < 200V$ : 1.4% max. ; $U_R \geq 200V$ : 1.0% max.
Dielectric Strength	*To apply voltage. $U_R = 100V$ = 2.5 times of $U_R$ $U_R = 200V/250V$ = 2 times of $U_R$ $U_R = 350/450/500V$ = 1.5 times of $U_R$ $U_R > 500V$ = 1.2 times of $U_R$ * Duration: 1 to 5 sec.
Insulation resistance at $U_R^{**}$	$\geq 10G\Omega$ or $R \times C \geq 500\Omega \times F$ whichever is smaller
Operating temperature	-55 to +125°C
Capacitance characteristic	$\pm 15\%$
Termination	Ag / Ni / Sn

## ◆ Capacitance Range

Dielectric	X7R										
	0805	1206			1210			1812	1825	2220	
	Size	100	250	500	100	250	500	100	100	100	250
Rated Voltage	250	100	250	500	100	250	500	100	100	100	250
100pF (101)											
120pF (121)											
150pF (151)											
180pF (181)											
220pF (221)											
270pF (271)											
330pF (331)											
390pF (391)											
470pF (471)											
560pF (561)											
680pF (681)											
820pF (821)											
1000pF (102)											
1200pF (122)											
1500pF (152)											
1800pF (182)											
2200pF (222)											
2700pF (272)											
3300pF (332)											
3900pF (392)											
4700pF (472)											
5600pF (562)											
6800pF (682)											
8200pF (822)											
0010uF (103)											
0012uF (123)											
0015uF (153)											
0018uF (183)											
0022uF (223)											
0027uF (273)											
0033uF (333)											
0039uF (393)											
0047uF (473)											
0056uF (563)											
0068uF (683)											
0082uF (823)											
0.10uF (104)											
0.12uF (124)											
0.15uF (154)											
0.18uF (184)											
0.22uF (224)											
0.27uF (274)											
0.33uF (334)											
0.39uF (394)											
0.47uF (474)											
0.56uF (564)											
0.68uF (684)											
0.82uF (824)											
1.0uF (105)											
1.2uF (125)											