

FL series

Low Dissipation capacitor series

◆ Features

- » Low ESR and Low Tan δ
- » 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: 0805 1206 1210 1812 1825 2220	X: X7R	Two significant Digits followed by no. of zeros and P is in place of decimal point Eg.: 0P47 = 0.47pF 0P5 = 0.5pF 1P0 = 1.0pF 100 = 10×10^0 = 10pF	J=±5% K=±10% M=±20%	Two significant Digits followed by no. of zeros and V is in place of decimal point 101 = 100 VDC 251 = 250 VDC 501 = 500 VDC

◆ General Electrical Data

Dielectric	X7R
Size	0805, 1206, 1210, 1812, 1825, 2220
Capacitance range*	100pF ~ 1.2μF
Capacitance tolerance	J (±5%), K (±10%), M (±20%)
Rated voltage (WVDC)	100V, 250V, 500V,
Tan δ	$U_R < 200V$: 1.4% max. ; $U_R \geq 200V$: 1.0% max.
Insulation resistance at U_R **	$\geq 10G\Omega$ or $R_x C \geq 500\Omega \times F$ whichever is smaller
Operating temperature	-55 to +125°C
Capacitance characteristic	±15%
Termination	Ag / Ni / Sn

* Measured at the condition of 30~70% related humidity.

Apply $1.0 \pm 0.2V_{rms}$, $1.0kHz \pm 10\%$, at 25°C ambient temperature.

** Measured at 500VDC fro 60 sec, for $U_R > 500VDC$

◆ 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)											