



X7R MLCC for General-use

X7R MLCC for General-use is class II low frequency capacitor, its capacitance is stable.

- Properties
- * The capacitance is stable, its operating temperature is -55°C \sim 125°C, within the range, the temperature coefficient is \pm 15%.
- * It has multi-layer monolithic structure, has high reliability.
- It has good solderability and soldering resistance, suitable for flow soldering/reflow soldering.
- Applications

It is suitable for all kinds of filter and coupling circuits.

• Product part number expression method

0805	В	103	К	500	N	т
	\top		\top	Т	T	Т
(1)	2	3	4	5	6	\overline{O}

	(1)Dimensio	ons
Туре	British (Inch)	Metric (mm)
0402	0.04×0.02	1.00×0.50
0603	0.06×0.03	1.60×0.80
0805	0.08×0.05	2.00×1.25
1206	0.12×0.06	3.20×1.60

	Type
Code	Dielectric Material
В	X7R

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③Normal Capacitance(PF)									
Expression Method	Actual Value								
101	10×10 ¹								
102	10×10 ²								
103	10×10^{3}								

4 Cap Tole	pacitance erance
Code	Tolerance
J	±5%
К	±10%
М	±20%

⑤Rated V	oltage
Expression Method	Actual Value
250	25V
500	50V
101	100V
201	200V

©Term	ination Type
Expression Method	Termination Material
S	Pure Silver
С	Pure Copper
Ν	Three Layers Plating Terminal (Silver or Copper layer/ Nickel layer /Tin layer)

⑦Package Method									
Expression Method	Packaging								
No Mark	Bulk Packaging in a Bag								
т	Taping Packaging								
В	Bulk Plastic Box Packaging								

Outside Dimension

	Ту	pe	Dimension (mm)								
<u>, </u>	British expression	Metric expression	L	W	т	WB					
WB-X H- F2	0402	1005	1.00±0.05	0.50 ± 0.05	0.50 ± 0.05	0.25±0.10					
T.	0603	1608	$1.60 {\pm} 0.10$	0.80±0.10	0.80±0.10	0.30 ± 0.10					
T T	0805	2012	2.00±0.20	1.25±0.20	0.80±0.10 1.00±0.10 1.25±0.20	0.50±0.25					
	1206	3216	3.20±0.30	1.60±0.20	0.80±0.10 1.00±0.10 1.25±0.20	0.50±0.25					





Capacitance Range

Item							X7	r Ml	.001	for G	enera	al-use	Э							
Dimension	0402			0603				0805					1206							
Rated Volatage	6.3V	10V	16V	25V	50V	6.3V	10V	16V	25V	50V	6.3V	10V	16∨	25V	50V	6.3V	10∨	16V	25V	50∨
Capacitance																				
100PF									,											
330PF						_														
470PF																				
680PF																				
1000PF						_														
1.5nF																				
2.2nF																				
3.3nF																				
4.7nF																				
6.8nF																				
10nF																				
12nF																				
15nF																				
22nF						_														
27nF																				
33nF																				
39nF																				
47nF																				
56nF																				
68nF																				
100nF																				
150nF			<																	
220nF																				
270nF						_														
330nF																				
470nF																				
680nF																				
1 µ F																				
2.2 µ F																				
4.7 µ F																				
10 µ F																				
22 µ F																				