

■ 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 $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$, 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

$\frac{0805}{\text{①}}$ $\frac{B}{\text{②}}$ $\frac{103}{\text{③}}$ $\frac{K}{\text{④}}$ $\frac{500}{\text{⑤}}$ $\frac{N}{\text{⑥}}$ $\frac{T}{\text{⑦}}$

①Dimensions		
Type	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

②Dielectric Type	
Code	Dielectric Material
B	X7R

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

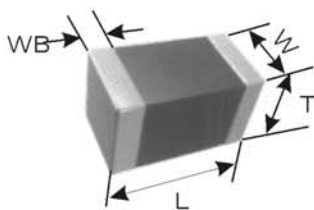
④Capacitance Tolerance	
Code	Tolerance
J	±5%
K	±10%
M	±20%

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

⑥Termination Type	
Expression Method	Termination Material
S	Pure Silver
C	Pure Copper
N	Three Layers Plating Terminal (Silver or Copper layer/ Nickel layer/ Tin layer)

⑦Package Method	
Expression Method	Packaging
No Mark	Bulk Packaging in a Bag
T	Taping Packaging
B	Bulk Plastic Box Packaging

• Outside Dimension



Type		Dimension (mm)			
British expression	Metric expression	L	W	T	WB
0402	1005	1.00±0.05	0.50±0.05	0.50±0.05	0.25±0.10
0603	1608	1.60±0.10	0.80±0.10	0.80±0.10	0.30±0.10
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

