

## ■ Y5V MLCC for General-use

Y5V MLCC for General-use is class II low frequency capacitor, its capacitance will change a lot along with the temperature, voltage, time.

### • Features

- \* Its operating temperature is  $-25^{\circ}\text{C}\sim 85^{\circ}\text{C}$ , within the range, the temperature coefficient is  $+30\%$ ,  $-80\%$ .
- \* 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 circuits.

### • Product Part Number Expression



① Dimensions		
Type	British (Inch)	Metric (mm)
0402	$0.04 \times 0.02$	$1.00 \times 0.50$
0603	$0.06 \times 0.03$	$1.60 \times 0.80$
0805	$0.08 \times 0.05$	$2.00 \times 1.25$
1206	$0.12 \times 0.06$	$3.20 \times 1.60$

② Dielectric Type	
Code	Dielectric
F	Y5V

③ Normal Capacitance (PF)	
Expression Method	Actual Value
102	$10 \times 10^2$
103	$10 \times 10^3$
104	$10 \times 10^4$

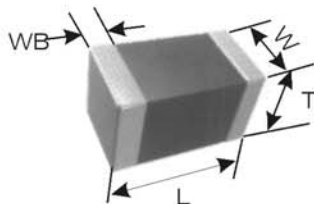
④ Capacitance Tolerance	
Code	Tolerance
M	$\pm 20\%$
Z	$+80\%$ $-20\%$

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

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

⑦ Package 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	$1.00 \pm 0.05$	$0.50 \pm 0.05$	$0.50 \pm 0.05$	$0.25 \pm 0.10$
0603	1608	$1.60 \pm 0.10$	$0.80 \pm 0.10$	$0.80 \pm 0.10$	$0.30 \pm 0.10$
0805	2012	$2.00 \pm 0.20$	$1.25 \pm 0.20$	$0.80 \pm 0.10$ $1.00 \pm 0.10$ $1.25 \pm 0.20$	$0.50 \pm 0.25$
1206	3216	$3.20 \pm 0.30$	$1.60 \pm 0.20$	$0.80 \pm 0.10$ $1.00 \pm 0.10$ $1.25 \pm 0.20$	$0.50 \pm 0.25$

