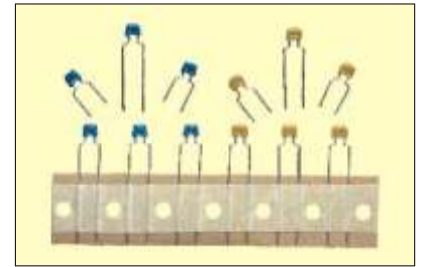
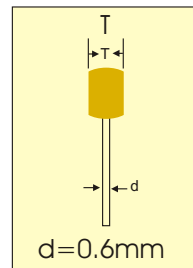
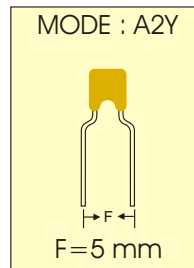
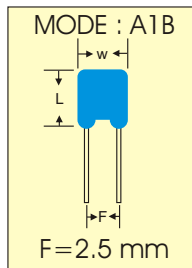




積層陶瓷電容器

MULTILAYER CERAMIC CAPACITORS



SIZE CODE AND DIMENSIONS : Units in Inches (millimeter)

SIZE CODE	L	W	T	LEAD DIAMETER(d)	LEAD LENGTH(L)	LEAD SPACING(F)	LEAD STYLES
R15	.150 (3.81)	.150 (3.81)	.100 (2.54)	0.024 (0.60)	.10(2.50) 1.0)25.0(	.100(2.54)	A1
						.200(5.08)	A2
						.300(7.62)	A2
R20	.200 (5.08)	.200 (5.08)	.125 (3.18)	0.024 (0.60)	.10(2.50) 1.0)25.0(	.100(2.50)	A1
						.200(5.08)	A2
						.250(6.35)	A2
						.300(7.62)	A2
R30	.300 (7.62)	.300 (7.62)	.150 (2.18)	0.024 (0.60)	.10(2.50) 1.0)25.0(	.200(5.08)	A2
						.300(7.62)	A2

ELECTRICAL SPECIFICATIONS

Capacitance Range: 1pF to 10 μ F
Capacitance Tolerance: (Standard)

NPO: F = $\pm 1\%$
G = $\pm 2\%$
C = $\pm 0.25\text{pF}$ 10pF and below(
D = $\pm 0.5\text{pF}$ 10pF and below(
J = $\pm 5\%$ 10pF and above(
K = $\pm 10\%$ (5.6pF and above)
M = $\pm 20\%$ 2.7pF and above(
X7R : K = $\pm 10\%$
M = $\pm 20\%$
Z = + 80-20%

Working Voltage : 25,50,100,200,1k VDC
Temperature Characteristic:
NPO : $0 \pm 30\text{ppm}^\circ\text{C}$, -55°C to $+125^\circ\text{C}$
X7R : $\pm 15\% \Delta^\circ\text{C}$, -55°C to $+125^\circ\text{C}$
Z5U : $+ 22\%$ to $-56\% \Delta^\circ\text{C}$, $+10^\circ\text{C}$ to 85°C
Y5V : $+ 22\%$ to $-82\% \Delta^\circ\text{C}$, -30°C to 85°C

Insulation Resistance: at 25°C
NPO,X7R : 100K Megohms or 1000 Megohms-
Microfarads whichever is less at
rated voltage within 2 minutes of
charging.
Z5U,Y5V : 10K Megohms or 1000 Megohms-
Microfarads whichever is less at
rated voltage within 2 minutes of
charging.

MECHANICAL SPECIFICATIONS

Cast : Conformal coated (epoxy)
Lead Material : Solder coated, copper
Package Method : Bulk, Tape & Ammo pack,
Solder ability : (MIL-STD-202 Method 208)
Leach Resistance : Temp 230°C , 20seconds
immersion in Sn62

*STANDARD TOLERANCE

NPO: J. K.
X7R : K. M.
Z5U,Y5V : M. Z.

Capacitance Test at 25°C or referred to $+25^\circ\text{C}$:
NPO,X7R.
1.0 V RMS ± 0.25 VRMS and 1 KHz;
1 MHz for values below 100pF,
Z5U,Y5V : 0.5 ± 0.1 VRMS maximum and 1KHz.

Dissipation Factor:

N PO : 0.1%maximum at 25°C , 1.0VRMS
 ± 0.25 VRMS and 1 KHz, 1 MHz for
values below 100pF

X7R : 2.5% maximum at 25°C , 1.0VRMS
 ± 0.25 VRMS and 1 KHz.

Z5U,Y5V : 4% maximum at 25°C , 0.5 ± 0.1 VRMS
maximum and 1 KHz.

Dielectric Strength :

NPO, X7R : 250% rated voltage with 50 mA
maximum charging current.

Z5U, Y5V : 200% rated voltage with 50 mA
maximum charging current.

Life Test : (1000 hrs)

NPO, X7R : 200% rated voltage at $+125^\circ\text{C}$
Z5U, Y5V : 150% rated voltage at $+85^\circ\text{C}$

Humidity Resistance:

(MIL-STD-202 Method 106)
NPO,X7R,Z5U:96 hrs 40°C relative
humidity 90-95%

Thermal Shock :

(MIL-STD-202 Method 107, condition A)

積層電容 Taping 尺寸與
陶瓷電容器 (CC)Taping 尺寸相同。



CAPACITANCE RANGE OF MONO RADIAL

[illegible]