

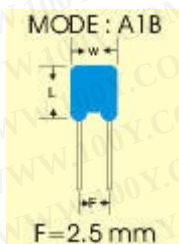


TROUBLE
Service • Quality • Price

MULTILAYER CERAMIC CAPACITORS

積層電容器

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



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
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 10μF

Capacitance Tolerance: (Standard)

NPO: F=± 1%

G=± 2%

C=± 0.25pF (10pF and below)

D=± 0.5pF (10pF and below)

J=± 5% (10pF and above)

K=± 10% (5.6pF and above)

M=± 20% (2.7pF and above)

X7R: K=± 10%

M=± 20%

Z=+80~-20%

Working Voltage: 25, 50, 100, 200, 1K VDC

Temperature Characteristic:

NPO: 0 ± 30ppm/°C, -55°C to +125°C

X7R: ± 15% /°C, -55°C to +125°C

Z5U: +22% to -56°C, +10°C to 85°C

Y5V: +22% to -82°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, 20 seconds

Immersion in Sn62

*STANDARD TOLERANCE

NPO: J. K.

X7R: K. M.

Z5U, Y5V: M. Z.

Capacitance Test at 25°C or referred to +25°C:

NPO, X7R.

1.0 V RMS ±0.25 VRMS and 1KHz;

1MHz for values below 100pF,

Z5U, Y5V: 0.5 ± 0.1VRMS maximum and 1KHz

Dissipation Factor:

NPO: 0.1% maximum at 25°C, 1.0VRMS

± 0.25VRMS and 1KHz, 1MHz for

values below 100pF

X7R: 2.5% maximum at 25°C, 1.0 VRMS

± 0.25VRMS and 1KHz.

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

Dielectric Strength:

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

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

Life Test: (1000 hrs)

NPO, X7R: 200% rated voltage at +125°C

Z5U, Y5V: 150% rated voltage at +85°C

Humidity Resistance:

(MIL-SSTD-202 Method 106)

NPO, X7R, Z5U: 96 hrs 40°C relative

Humidity 90-95%

Thermal Shock:

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

Taping

(CC) Taping

OF MONO RADIAL

T.C. SIZE		NPO						X7R						Z5U, Y5V					
		R15		R20		R30		R15		R20		R30		R15		R20		R30	
CAP		50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
WVDC																			
1RF to 100	1R0 to 101																		
120	121																		
150	151																		
180	181																		
220	221																		
270	271																		
330	331																		
390	391																		
470	471																		
560	561																		
680	681																		
820	821																		
1000	102																		
1200	122																		
1500	152																		
1800	182																		
2200	222																		
2700	272																		
3300	332																		
3900	392																		
4700	472																		
5600	562																		
6800	682																		
8200	822																		
0.01 μ F	103																		
0.012	123																		
0.015	153																		
0.018	183																		
0.22	223																		
0.027	273																		
0.033	333																		
0.039	393																		
0.047	473																		
0.056	563																		
0.068	683																		
0.082	823																		
0.10 μ F	104																		
0.12	124																		
0.15	154																		
0.18	184																		
0.22	224																		
0.33	334																		
0.47	474																		
0.56	564																		
0.68	684																		
0.82	824																		
1.00	105																		
1.50	155																		
2.20	225																		

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