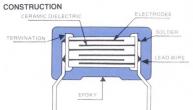
MULTILAYER CERAMIC CAPACITORS EPOXY COATED RADIAL TYPE



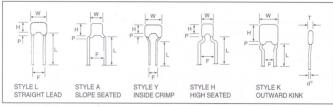
APPLICATION

NPO: Temperature compensation type, have little or no change in capacitance with variation in temperature. Hence, they are used in radio-frequency oscillators, precision timing circuits, ultrastable amplifiers, etc.

X7R: Temperature stable type for by-pass and decoupling in radio and television receivers, computers servo systems, audio tone, and coupling, etc., where moderate capacitance variations are permissible and dissipation factor is not critical.

Z5U/Y5V: General type for by-pass and filtering applications.

1. LEAD SHAPE:



2. LEAD SPACE (F)

CODE	LEAD SPACE (mm/inch)		
2	2.54 ± 0.8	0.1 ± 0.032	
5	5.08 ± 0.8	0.2 ± 0.032	

3. LEAD LENGTH

CODE	PACKING	LEAD LENGTH		
R	Tape/Reel	-		
В	Tape/Box	-		
К	Bulk	LEAD LENGTH UPON REQUEST 2.5~25.4mm		
L		25.4mm min		

SIZE CODE and DIMENSIONS (millimeter)

SIZE CODE	Н	W	Т	D	d ⁰	LEAD LENGTH	LEAD SPACING(F)	LEAD SHAPE	
RD15 3.81 3.81	2.54				2.54	L			
NDIS	3.01 3.01	2.54	2.00	0.53	2.5mm	5.08	A.H.K.		
RD20 5.08 5.08	F 00	0.40				2.54	L.K.Y.		
	3.18			25.4mm	5.08	H.K.			
RD30	7.62	7.62	3.81					5.08	Н

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Part Code Designation



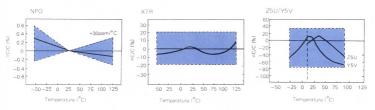
3D=2KV

3F=3KV

TYPICAL PERFORMANCE CHARACTERISTICS

100.000PF = 104

1. TEMPERATURE CHARACTERISTICS



2. SPECIFICATIONS

Temperature coefficient

NPO: 0+30ppm/°C -55°C to +125°C X7R : ±15%, -55°C to +125°C Z5U: +22%, -56%, +10°c to +85°C Y5V: +22%, -82%, -30°C to +85°C

Capacitance Test 25°C

NPO: 1 VRMS max at 1 KHz (1 MHz for 100pF or less) X7R : 1 VRMS max at 1 KHz

Z5U: 1 VRMS max at 1 KHz Y5V : 1 VRMS max at 1 KHz

Dissipation Factor 25°C

NPO: 0.15% max at 1 KHz, 1 VRMS max (1 MHz for 100pF or less)

X7R : 2.5% max at 1 KHz, 1 VRMS max. Z5U: 5% max at 1 KHz, 1 VRMS max.

Y5V: 5% max at 1 KHz, 1 VRMS max.

Dielectric Strength 25°C (Flash Test)

NPO and X7R: 300% rated voltage for 5

seconds with 50 mA. max charging curent.

Z5U and Y5V: 250% rated voltage for 5 seconds with 50 mA, max.

Life Test (1000hrs)

NPO: ≤ ±3% at 200% vated voltage, 125°C X7R : ≤ ± 12.5% at 200% rated voltage, 125°C

Z5U : ≤ ±30% at 200% rated voltage, 85°C Y5V : ≤ ±30% at 200% rated voltage, 85°C

Insulation Resistance 25°C

NPO and X7R: 100GΩ or 1000MΩ-MFD whichever

is less. Z5U and Y5V : 10GΩ or 100MΩ-MFD whichever

is less.