





			CODIGO	DESCRIPCION									
NP0-XXX-50V						Ceramico multicapa 50V NP0 F=2.5mm							
	2. Lead Space (F)					3. Lead Length (L)							
	Code		LEAD SPACE (mm/inch)				Code	1	LEAD LENGTH		REMARK		Ċ.
	2		2.54±0.8 0.1		1±0,032		6		6mm±1mm		Specified lead length		
	5		5.08±0.8 0.2		2±0.032	s de	L		25.4mm (min)		upon request.		
	4. Body Size & Dimension										Sto		1
	Size		Capacita	nce Range		Lead style		Dimensions (mm)					
	code	NPO	X7R	Z5U	Y5V	available	H max	W max	T max.	d±0.05	F±0.08	Р	
	R15	50V: 0.47 - 4700pF	50V: 220pF-0.33uF	50V:	50V: 0.01-0.33uF	L	3.8	3.8	2.5	0.5	2.54	-	
		100V: 0.47-3900pF	100V: 220pF-0.1uF	0.01uF - 0.22uF	25V: 0.47-1.0uF	H,A	3.8	H=3.8 A=5.0	2.5	0.5	5.08	2.0	
	R20	25V: 12 – 47nF 50V:	25V: 1.0-10uF 50V:	50V: 0.22uF - 1.0uF	16V: 10-22uF 25V:	Y	5.0	6.0	3.0	0.5	2.54	2.0	
		2200pF-0.01uF 100V: 1nF - 0.01uF	0,1-2,2uF 100V: 0,1-1.0uF		2.2-4.7uF 50V: 0.47-2.2uF	н	5.0	6.0	3.0	0.5	5.08	2.0	
	R25	25V: 0.1uF		100V: 0.47uF - 2.2uF	16V: 47uF	L		6.5	4.0	0.5		-	
		50V & 100V	100V: 0.22 – 2.2uF		25V: 22uF		6.5				5.08		
	-	0.012-0.033uF		United 2120	50V: 10uF]					-		

Typical Performance Characteristics

Specifications

Temperature coefficient

- NPO: ± 30PPM/°C, -55°C to + 125°C
- X7R: ± 15%, -55°C to +125°C
- Z5U: +22%, 56%, +10°C to +65°C
- Y5V: +22%, -82%, -30°C to +65°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 (see exception at last page) NPO: 0.15% max at 1KHz, 1VRMS max (1 MHz for 1000pF or less)

Z5U: 5% max (at 1KHz, 1VRMS max)

X7R:((at 1KHz, 1VRMS max)	Y5V: (at 1KHz, 1VRMS max)			
Max	Rated voltage	Max	Rated voltage		
2.5%	≥50V9	5%	≥50¥		
3.5%	25V & 16V 👘 👘 👘	7%	25V & 16V		
5.0%	10V & 6.3V	10%	10V & 6.3V		

Dielectric strength 25°C (Flash Test)

- NPO and X7R: 300% rated voltage for 5 seconds with 50 mA. max charging current.
- Z5U and Y5V: 250% rated voltage for 5 seconds with 50 mA, max charging current

LiteTest :

(1000 his at max temp. applied with Flash test voltage Recovery: 6-24 his for NPO and 24 ± 2 his for X7R & Z5U)

- NPO: ≦ ±3% at 200% rated voltage, 125°C
- X7R: ≤±3% at 200% rated voltage, 125°C
- Z5U: ≦ ±3% at 200% rated voltage, 85°C
- Y5V: ≤ ±3% at 200% rated voltage, 85°C

Insulation Resistance after 60 sec., charging at rated voltage, 25°C, 55% R.H. max

- NPO: 100GΩ or 1000MΩ-uF whichever is less
- = X7R : 10G Ω or 100M Ω -uF whichever is less
- Z5U : 10GΩ or 100MΩ -uF whichever is less
- Y5V : 10GΩ or 1000MΩ-uF whichever is less



