Multilayer Ceramic Chip Capacitors

NCA Series

FEATURES

- STANDARD EIA 1206 & 0805 PACKAGING
- EACH COMPONENT CONTAINS 4 ISOLATED CERAMIC CAPACITORS
- AVAILABLE IN A WIDE RANGE OF VALUES AND TEMPERATURE COEFFICIENTS

RoHS Compliant includes all homogeneous materials

*See Part Number System for Details

SPECIFICATIONS	NPO	X7R	Y5V			
OPERATING TEMPERATURE	-55°C~ +125°C	-55°C~ +125°C	-30°C~ +85°C			
CAPACITANCE RANGE	10pF ~ 1000pF	100pF ~ 0.1μF	0.01µF ~ 0.33µF			
VOLTAGE RANGE		SEE VALUES TABLES				
CAPACITANCE TOLERANCE	±5% (J)	±10%(K), ±20%(M)	+80%/-20% (Z)			
TEMPERATURE CHARACTERISTICS	0±30ppm	±15%	+30% ~ -80%			
DIELECTRIC WITHSTANDING VOLTAGE	2.5 x Rated Voltage for 1 minute					
INSULATION RESISTANCE (after 1 minute)	>100GΩ	>10GΩ	>10GΩ			
DISSIPATION FACTOR	<u><</u> 0.1%	<u><</u> 5%	<u><</u> 7%			

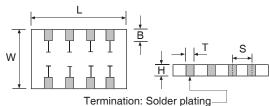
STANDARD VALUES AND VOLTAGES

	NPO					X7R			Y5V			
Cap.	Working Voltage (Vdc)											
	16	25	50	100	10	16	25	50	100	16	25	50
10pF	‡	¤‡	¤‡	‡								
22pF	‡	¤‡	¤‡	‡								
33pF	‡	¤‡	¤‡	‡								
47pF	‡	¤‡	¤‡	‡								
68pF	‡	¤‡	¤‡	+								
82pF	‡	¤‡	¤‡	‡								
100pF	¤‡	¤‡	¤‡	‡		a	a					
220pF	¤‡	‡	‡	‡		¤	¤					
330pF	‡	‡	‡	‡		ø	۵	‡				
470pF	‡	‡	‡			¤‡	¤‡	‡	‡			
680pF	‡	‡	‡			¤‡	¤‡	‡	‡			
820pF	‡	‡	‡			¤‡	¤‡	‡	‡			
.001µF	‡	‡	‡			¤‡	¤‡	‡	‡			
.0022µF						¤‡	¤‡	‡	‡			
.0033µF						¤‡	a	‡	‡			
.0047µF						¤‡	a	‡	‡			
.0068µF						¤‡	۵	‡	‡			
.0082µF						¤‡	‡	‡	‡			
.01µF					ø	¤‡	‡	‡	‡	‡	‡	‡
.022µF					a	‡	‡	‡		‡	‡	‡
.033µF					ø	‡	‡	‡		‡	‡	‡
.047μF					ø	‡	‡			‡	‡	‡
.068µF					ø	‡	‡			‡	‡	
.082µF					a	‡				‡	‡	
0.1µF					¤*	‡				‡	‡	
0805 Val	ues	¤	1	206 \	/alue	S	‡					

* X5R TC -55°C ~ +85°C

PART DIMENSIONS (mm)

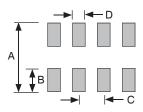
		· /
Series	NCA0805	NCA1206
L	2.00 ± 0.20	3.20 ± 0.20
W	1.25 ± 0.20	1.60 ± 0.20
Н	1.00 max.	1.30 max.
S	0.50 ± 0.10	0.80 ± 0.20
Т	0.28 ± 0.10	0.40 ± 0.10
В	0.25 ±0.15	0.30 ± 0.20

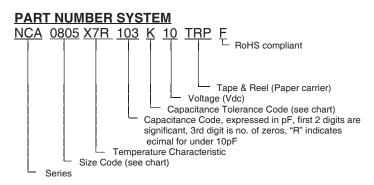


over nickel barrier

RECOMMENDED LAND PATTERN (mm)

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Series	A	В	С	D			
NCA0805	1.65 ± 0.10	0.55 ± 0.05	0.5 ± 0.05	0.25 ± 05			
NCA1206	2.60 ± 0.10	0.80 ± 0.05	0.8 ± 0.10	0.45 ±0.1			





TAPE DIMENSIONS (mm)

A _o	B ₀	F	G	К	P _o	P ₁	P ₂	Т	W
See note 1		3.50 ±0.05	1.75 ±0.1	2.50 max.	4.0 ±0.1	4.0 ±0.1	2.0 ±0.05	0.6 max.	8.0 ±0.3

Note 1 - These dimensions are deterined by the maximum dimensions of the part. Clearance between the sides of the components shall be 0.05mm (min.) and 0.50mm (max). The clearance shall not allow the component to rotate more than 20° within the carrier cavity.

