

XX	1206	N	472	J	101	N	X050	H	T	M	HB
Prefix	Case Size	Dielectric	Capacitance Codes	Capacitance Tolerance	Voltage	Termination	Special Thickness	High Reliability Testing	Packaging	Marking	High Reliability Test Criteria

Prefix Definitions

None	Standard chip	
RF	Improved ESR Capacitor	p. 39
ST	Stacked Capacitor Assembly	p. 76 - 81
SM	Stacked Hi-Rel Capacitor Assembly	p. 76 - 81
CR	Cap Rack Arrays	p. 82

Dielectric Codes

N	C0G/NP0	Ultra Stable
K	R3L	Ultra Stable
B	X7R	Stable
W	X5R	Stable
X	BX	MIL
BB	X7R	Stable BME
BW	X5R	Stable BME
M	C0G/NP0	Non Magnetic
C	X7R	Non Magnetic
F	C0G/NP0	High Temp. (up to 160°C)
D, RD	C0G/NP0	High Temp. (up to 200°C)
S	X8R	High Temp. (up to 150°C)
E, RE	Class II	High Temp. (up to 200°C)
G	Class II	High Temp. (up to 160°C)
RN	C0G/NP0	Lead free
RB	X7R	Lead free

Capacitance Codes

1 st two digits are significant figures of capacitance, 3 rd digit denotes number of zeros, R = decimal point Examples:	1R0	1.0pF
	120	12pF
	471	470pF
	102	1,000pF
	273	0.027μF
	474	0.47μF
	105	1.0μF

Special Thickness

None	Standard thickness as per Novacap catalog specifications
X	Denotes a special thickness other than standard. Specify in inches if required. (As shown above X = 0.050")

High Reliability Testing

None	Standard product
H	High Reliability Testing
H	High Temp Screening

Marking

None	Unmarked
M	Marked <small>*Marking not available on sizes ≤ 0603</small>

Note: Refer to page 17.

Packaging

None	Bulk
T	Tape and Reel
W	Waffle Pack

High Reliability Testing Criteria

HB	MIL-PRF-55681 Group A
HV	MIL-PRF-49467 Group A
HS	MIL-PRF-123 Group A
HK	MIL-PRF-38534 Class K

Voltage Code

1st two digits are significant, third digit denotes number of zeros. For example:

160	16 Volts
101	100 Volts
501	500 Volts
102	1,000 Volts
502	5,000 Volts
103	10,000 Volts

Termination Codes

P	Palladium Silver	
PR	Palladium Silver*	
K	Solderable Palladium Silver*	
N	Nickel Barrier*	100% tin
Y	Nickel Barrier	90% tin, 10% lead
NG	Nickel Barrier Gold Flash*	
C	FlexiCap™/Nickel Barrier*	100% tin
D	FlexiCap™/Nickel Barrier	90% tin, 10% lead
B	Copper Barrier*	100% tin
E	Copper Barrier	90% tin, 10% lead
S	Silver*	

*Indicates RoHS terminations

Capacitance Tolerance Codes

Code	Tolerance	C0G/NP0		R3L	X7R	BX	X8R	Class II	X5R		
		N	M	F/D, RD	K	B	C, RE	X	S	E/G	W
B	±0.10pF	•	•								
C	±0.25pF	•	•		•						
D	±0.50pF	•	•		•						
F	±1%	•	•	•							
G	±2%	•	•	•	•						
J	±5%	•	•	•	•	•*	•	•*	•	•	
K	±10%	•	•	•	•	•	•	•	•	•	•
M	±20%	•		•	•	•	•	•	•	•	•