

# Chip ordering information - Novacap parts

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	
<b>RF</b>	Improved ESR Capacitor	p. 39
<b>ST</b>	Stacked Capacitor Assembly	p. 76 - 81
<b>SM</b>	Stacked Hi-Rel Capacitor Assembly	p. 76 - 81
<b>CR</b>	Cap Rack Arrays	p. 82

## Dielectric Codes

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

## Capacitance Codes

1 <sup>st</sup> two digits are significant figures of capacitance, 3 <sup>rd</sup> 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
<b>X</b>	Denotes a special thickness other than standard. Specify in inches if required. (As shown above X = 0.050")

## Marking

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

Note: Refer to page 17.

## Packaging

None	Bulk
<b>T</b>	Tape and Reel
<b>W</b>	Waffle Pack

## High Reliability Testing

None	Standard product
<b>H</b>	High Reliability Testing
<b>H</b>	High Temp Screening

## High Reliability Testing Criteria

<b>HB</b>	MIL-PRF-55681 Group A
<b>HV</b>	MIL-PRF-49467 Group A
<b>HS</b>	MIL-PRF-123 Group A
<b>HK</b>	MIL-PRF-38534 Class K

## Voltage Code

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

<b>160</b>	16 Volts
<b>101</b>	100 Volts
<b>501</b>	500 Volts
<b>102</b>	1,000 Volts
<b>502</b>	5,000 Volts
<b>103</b>	10,000 Volts

## Termination Codes

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

\*Indicates RoHS terminations

## Capacitance Tolerance Codes

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