



# ORDERING INFORMATION FOR SURFACE MOUNT CHIPS

1206 N 272 J 101 N X H T M

## Case Size

## Dielectric Code

Code	EIA	Class
N	COG/NP0	Ultra Stable
B	X7R	Stable
X	BX	MIL
Y	Y5V	General Purpose
Z	Z5U	General Purpose
S	X8R	High Temp up to 150°C
D	COG/NPO	High Temp up to 200°C
E	Class II (Stable)	High Temp up to 200°C

## Capacitance

1st two digits are significant, third digit denotes number of zeros, R= decimal

Examples:

- 1R0 = 1.0 pF
- 120 = 12 pF
- 471 = 470 pF
- 102 = 1,000 pF
- 273 = .027 μF
- 474 = 0.47 μF
- 105 = 1.0 μF

## Capacitance Tolerance

Code		COG NPO	X7R	BX	Z5U Y5V	X8R 150°C	D 200°C	E 200°C
B	±0.10pF							
C	±0.25pF							
D	±0.50pF							
F	± 1%pF							
G	± 2%pF							
J	± 5%pF							
K	±10%pF							
M	±20%pF							
Z	+80% -20%							
P	+100%/-0%							

## Marking

M = Marked  
None = Unmarked  
Marking not available on sizes 0603 and below

## Packaging

T = Tape and Reel  
W = Waffle Pack  
None = Bulk

## High Reliability Testing

H = High Reliability Testing Required  
None = Standard SMT, no High-Rel  
Consult catalog to determine MIL SPEC required.

## Thickness

X in Part number denotes a special thickness other than EIA Standard. Specify in mils if required. If no X in the part number then thickness is standard per Novacap catalog specifications.

## Termination

N = Nickel Barrier (100% Sn)  
P = Palladium Silver  
Y = Nickel Barrier (90%Sn/10%Pb)  
S = Silver

## Voltage

Examples:

- 160 = 16 Volts
- 202 = 2000 Volts
- 250 = 25 Volts
- 302 = 3000 Volts
- 500 = 50 Volts
- 402 = 4000 Volts
- 101 = 100 Volts
- 502 = 5000 Volts
- 251 = 250 Volts
- 602 = 6000 Volts
- 501 = 500 Volts
- 802 = 8000 Volts
- 102 = 1000 Volts
- 103 = 10,000 Volts

This ordering information relates to Novacap's standard surface mount capacitors. Please refer to our catalog for ordering information for our application specific products; ie: Stacked, Leaded, Capacitor Arrays, Pulsed Power capacitors and other specialty products.

