



STANDARD SMT CHIP P/N BREAKDOWN

1206 N 472 J 101 N X050 H T M - HB

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
F	160°	High Temp up to 160°C
G	160°	High Temp up to 160°C
W	X5R	Stable
P	85°	Pulse Power
R	200°	Pulse Energy

Capacitance

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

Examples:

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

Capacitance Tolerance

Code		COG NPO	X7R	BX	Z5U Y5V	X8R 150°C	D/F	E/G	W X5R
Cap Value < 10pF		█							
B	±0.10pF	█							
C	±0.25pF	█							
D	±0.50pF	█							
F	± 1%						█		
G	± 2%						█		
J	± 5%		█	█		█	█		
K	±10%		█			█	█		█
M	±20%		█		█		█		█
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
 HB = MIL-PRF-55681 Group A
 HK = MIL-PRF-38534 Class K
 HS = MIL-PRF-123 Group A

Special Thickness

X in the part number denotes a special thickness other than standard. Specify in mils if required. (As shown above X=.050")
 If no X in the part number then thickness is standard per Novacap catalog specifications.

Termination

N = Nickel Barrier (100% Tin) (RoHS)
 P = Palladium Silver
 PR = Palladium Silver (RoHS)
 Y = Nickel Barrier (90%Tin/10%Lead)
 S = Silver
 C = Polymer with Nickel Barrier (100% Tin) (RoHS)
 D = Polymer with Nickel Barrier (90%Tin/10%Lead)
 V = Non-Solderable Silver (RoHS)
 NG = Nickel Gold

Voltage

Examples:
 160 = 16 Volts 102 = 1000 Volts
 101 = 100 Volts 502 = 5000 Volts
 501 = 500 Volts 103 = 10,000 Volts

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