

# RESISTOR, TERMINATION CHIP

**DC - 10.0 GHz  
HIGH POWER**



MODELS: NPC50-50 SERIES

## SPECIFICATIONS:

### Electrical:

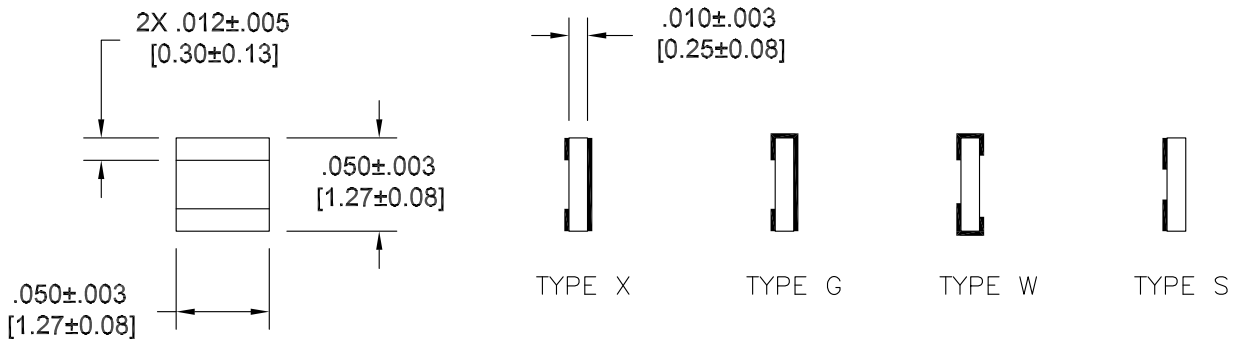
Frequency Range \_\_\_\_\_ DC - 10 GHz  
 Standard Ohm Values \_\_\_\_\_ 50 & 100 Ohms  
 \*\*Power (C/W)  
 Type "X" "S" & "G" Terminals \_\_\_\_\_ 5 Watts  
 Type "W" Terminal \_\_\_\_\_ 0.5 Watts  
 VSWR (Typ. for all Terminations) \_\_\_\_\_ 1.25:1 Max.

### Mechanical:

Substrate \_\_\_\_\_ Beryllium Oxide Ceramic  
 Resistor \_\_\_\_\_ Tantalum Nitride  
 Solderable Terminals \_\_\_\_\_ Gold  
 (See How to Order for other Terminal options)

\*\*Based on Maximum film temperature of +150°C and with maximum heatsink temperature of +100°C. Power rating based on chip mounted resistor side up on infinite and ideal heatsink.

Model Number: **NPC50-50Z-XXXXY**



Dimensions are for substrate only and do not include terminal thickness or optional tinning thickness.

## HOW TO ORDER:

Model Number: **NPCT50-50Z-XXXXY**

Terminal Options  
 = Gold  
 T = Tin Lead Solder  
 H = Lead Free Solder

Terminal Type  
 X = No Wrap  
 G = One end Wrap around  
 W = Both ends wrap around  
 S = Backside Blank

Tolerance  
 G = 2%  
 J = 5% (Standard)

Ohm Value (Other values available)  
 50R0 = 50 Ohms  
 1000 = 100 Ohms

### Ordering Examples:

Model Number: **NPC50-50X-1000J**  
 100 ±5%, Gold Terminal, no wrap

Model Number: **NPCT50-50G-50R0G**  
 50 ±2%, Tinned, One end wraparound

Note: Dimensions in Brackets are Expressed in Millimeters and are for Reference Only.  
 Design specifications are subject to change without notice.  
 Contact factory for technical specifications before purchasing or use.