

HIGH POWER CHIP RESISTORS, TERMINATIONS 50 & 100 OHMS

SERIES PPC, NPC

GENERAL INFORMATION

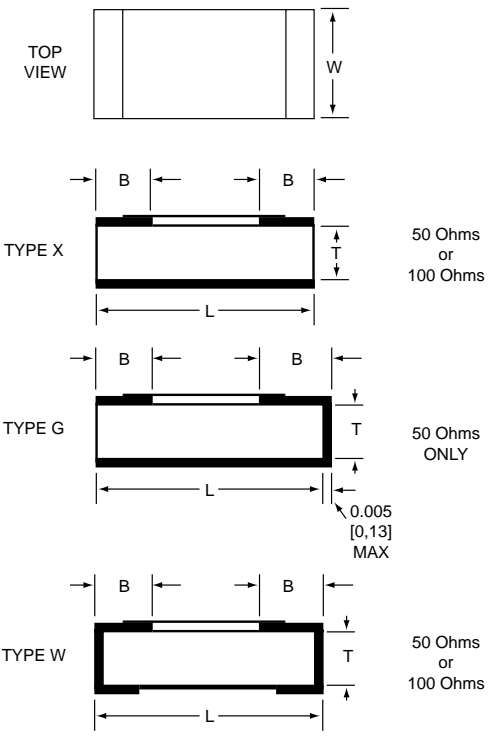
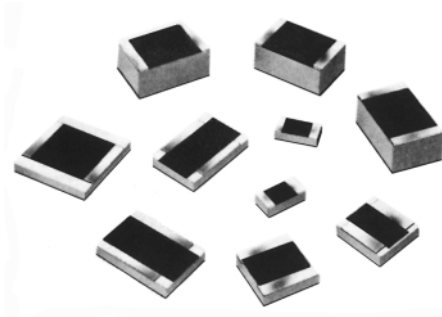
When mounted on an appropriate heat sink, these chip devices provide high power dissipation in terminations and as balancing resistors in Wilkinson power divider networks. Laser trimming provides maximum peak and average R.F. power capability.

GENERAL SPECIFICATIONS

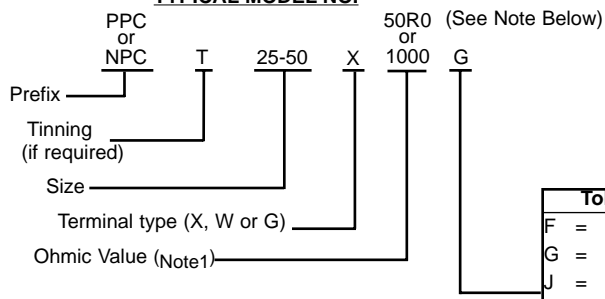
DC Voltage (Maximum):	$E = \sqrt{PR}$
Resistive Tolerance:	±2% standard
Solderable Terminals:	Electroplated Silver over Nickel (PPC) Gold over Nickel alloy (NPC)
Substrate:	Beryllium Oxide Ceramic
Resistive Element:	Thin Film and Thick Film *

Notes:

- The "L" and "T" dimensions are for the substrate only and do not include terminal thickness or optional tinning thickness.
- Thermal Resistance ($R\theta$) is measured in °C/W between resistive film and mounting surface.
- The CW power rating is based on maximum film temperature of +150°C and with maximum heatsink temperature of +100°C. Power is based on infinite and ideal heatsink. Type "W" termination style does not have full back plane metallization and typically handles less power.



TYPICAL MODEL NO.



F	= 1%
G	= 2% (Standard)
J	= 5%

Note:(1)

Resistance value is expressed using military 4-digit call-out.
 50R0 = 50 ohms
 1000 = 100 ohms
 Other values from 10–500 ohms available as special order.
 Contact factory for availability.

PERFORMANCE SPECIFICATIONS

Model Prefix	W	L (Note 1)	T (Note 1)	B	Capacitance (pF) Typical	$R\theta$ C/W Maximum (Note 2)	CW Power (Maximum) (Note 3)	Typical Power
*PPC 100-200A	0.100[2,5]	0.200[5,1]	0.040[1,02]	0.030[0,76]	0.8	0.80	62W	20W
*PPC 250-250A	0.250[6,4]	0.250[6,4]	0.040[1,02]	0.050[1,27]	1.2	0.30	170W	40W
*PPC 250-375A	0.250[6,4]	0.375[9,53]	0.040[1,02]	0.050[1,27]	3.5	0.15	330W	150W
NPC 25-50	0.025[0,64]	0.050[1,27]	0.010[0,25]	0.012[0,305]	–	3.90	12W	3W
*NPC 50-50	0.050[1,27]	0.050[1,27]	0.010[0,25]	0.012[0,305]	–	1.90	25W	5W
*NPC 50-100	0.050[1,27]	0.100[2,5]	0.010[0,25]	0.017[0,43]	–	0.72	70W	10W
NPC 75-150	0.075[1,91]	0.150[3,8]	0.010[0,25]	0.020[0,51]	–	0.29	170W	15W

* Low cost thick film models available on these sizes. Consult factory for specifications.

KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]



KDI-RESISTOR PRODUCTS

60 South Jefferson Road, Whippany, NJ 07981 • Tel: 973-887-8100 • Fax: 973-884-0445
 E-Mail: sales@mckedi-resistor.com • See us on the web @ www.mckedi-resistor.com