SERIES PPC, NPC
RESISTORS, TERMINATIONS
High Power Chip – 50 & 100 Ohms

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 RF power capability.

ORDERING INFORMATION
EXAMPLE: Typical Model No.

Physical Dimensions

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Tinning (see Note 4)</th>
<th>Size</th>
<th>Terminal type (X, W or G)</th>
<th>Ohmic Value (Note A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPC</td>
<td>H = Sn96</td>
<td></td>
<td>X</td>
<td>50R0 or 1000</td>
</tr>
<tr>
<td>NPC</td>
<td>T = Sn63</td>
<td></td>
<td>W</td>
<td>(See Note A Below)</td>
</tr>
</tbody>
</table>

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

NOTES
1. The “L” and “T” dimensions are for the substrate only and do not include terminal thickness or optional tinning thickness.
2. Thermal Resistance (R°) is measured in °C/W between resistive film and mounting surface.
3. 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 1/10 the rated power.
4. Tinning with Sn96 “Lead Free” high temperature solder will maintain RoHS compliance.

PERFORMANCE SPECIFICATIONS

Model Prefix | W (in) | L (Note 1) (in) | T (Note 1) (in) | B (in) | Capacitance (pF) Typical | RO* C/W Max. (Note 2) | C/W Power | Freq. GHz (**) |
--------------|--------|----------------|----------------|--------|-------------------------|-----------------------|-----------|---------------|
*PPC 100-200A | 0.100  | 0.200          | 0.040          | 0.030  | 0.8                     | 0.80                  | 20W       | DC-4.0        |
*PPC 250-250A | 0.250  | 0.250          | 0.040          | 0.050  | 1.2                     | 0.30                  | 40W       | DC-2.5        |
*PPC 250-375A | 0.250  | 0.375          | 0.040          | 0.050  | 3.5                     | 0.15                  | 150W      | DC-1.0        |
NPC 25-50     | 0.050  | 0.050          | 0.010          | 0.012  | 0.3                     | 3.90                  | 3W        | DC-12.4       |
*NPC 50-50    | 0.050  | 0.050          | 0.010          | 0.012  | 0.5                     | 0.90                  | 5W        | DC-10         |
*NPC 50-100   | 0.050  | 0.100          | 0.010          | 0.017  | 1.0                     | 0.72                  | 10W       | DC-4.0        |
NPC 75-150    | 0.075  | 0.150          | 0.010          | 0.020  | 1.8                     | 0.29                  | 15W       | DC-4.0        |

* Low cost thick film models available on these sizes. Consult factory for specifications.
** Typical VSWR for all terminations is 1.25:1

KEY: Inches | Millimeters | XX ± 0.3 | XXX ± 0.010 | 0.3 ± 0.08 | XX ± 0.25 |