Terminations & Loads

Model 1429
Medium Power, N & 3.5mm Connectors
Convection Cooled

dc to 18.0 GHz
25 Watts

Features
- Designed to meet environmental requirements of MIL-D-39030.
- Rugged injection molded connector.
- Low Intermodulation Option.
- 1 Kilowatt Peak Power

Specifications

NOMINAL IMPEDANCE: 50 Ω
FREQUENCY RANGE: dc to 18.0 GHz

MAXIMUM SWR:

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>SWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc - 18</td>
<td>1.20</td>
</tr>
</tbody>
</table>

POWER RATING: 25 watts average (mounted horizontally assuming unobstructed air flow and natural convection around unit) @ 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. 1 kilowatt peak (5 usec pulse width; 1.25% duty cycle).

INTERMODULATION (Model 1429-X-LIM Only): IM3 (Reflected) = -100 dBc with two input signals @ 869 MHz and 891 MHz with an average power of +41 dBm each.

TEMPERATURE RANGE: -55°C to +125°C

TEST DATA: Swept data plots of SWR from 50 MHz to 18 GHz is available at additional cost.

CONNECTOR: Type N connector per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connector. Choice of male (-4) or female connector (-3).

3.5mm connector mate nondestructively with SMA per MIL-C-39012, 2.92mm and other 3.5mm connector. Choice of male (-2) or female connector (-1).

CONSTRUCTION: Black, finned aluminum body, stainless steel connector; gold plated beryllium copper female contact or stainless steel male contact.

WEIGHT: 100 g (3.5 oz)

PHYSICAL DIMENSIONS:

<table>
<thead>
<tr>
<th>Model #</th>
<th>DIM A (inches)</th>
<th>Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1429-1</td>
<td>13.2 (0.52)</td>
<td>3.5mm female</td>
</tr>
<tr>
<td>1429-2</td>
<td>14.0 (0.55)</td>
<td>3.5mm male</td>
</tr>
<tr>
<td>1429-3</td>
<td>18.3 (0.72)</td>
<td>N female</td>
</tr>
<tr>
<td>1429-4</td>
<td>23.1 (0.91)</td>
<td>N male</td>
</tr>
</tbody>
</table>

NOTE: All dimensions are given in mm (inches) and are maximum, unless otherwise specified.

MODEL NUMBER DESCRIPTION:
Example:

1429 - X - LIM

IM Option*

* Add -LIM to entire model number for Low Intermodulation option.