2 Watt RF Load With Chain Up to 18 GHz With SMA Male Input Passivated Stainless Steel

RF Terminations Technical Data Sheet

Features
- DC to 18 GHz Frequency Range
- VSWR 1.3:1 Max
- Max Power 2 Watt (CW)
- SMA Male Coaxial Interface
- Includes Beaded Chain

Applications
- Wireless
- SatCom
- Radar Systems
- Test and Measurement
- Commercial and Military Communication

Description
Pasternack’s PE6082 is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 2 Watt (CW). Our SMA termination / load has a male gender. PE6082 SMA load termination offers 1.3:1 max VSWR.

RF load / terminations are indispensable components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can potentially damage the device or reduce the signal integrity. By using a terminator on an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These termination components are commonly used to terminate devices such as couplers, circulators, and switches. They are also widely used in measurement systems to ensure accurate results. Pasternack offers a huge selection of RF, microwave and millimeter wave terminations up to 65 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watt (CW).

Electrical Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>DC</td>
<td>18</td>
<td>18</td>
<td>GHz</td>
</tr>
<tr>
<td>Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>Ohms</td>
</tr>
<tr>
<td>VSWR</td>
<td></td>
<td>1.3:1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Power (CW)</td>
<td>2</td>
<td></td>
<td></td>
<td>Watts</td>
</tr>
<tr>
<td>derated linearly to 1W at +125°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Power (Peak)</td>
<td>250</td>
<td></td>
<td></td>
<td>Watts</td>
</tr>
<tr>
<td>5µs pulse, 0.05% duty cycle</td>
<td></td>
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</tr>
</tbody>
</table>

Mechanical Specifications

Size
- Length 0.58 in [14.73 mm]
- Width 0.315 in [8 mm]
- Weight 0.013 lbs [5.9 g]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2 Watt RF Load With Chain Up to 18 GHz With SMA Male Input Passivated Stainless Steel PE6082
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PE6082

Configuration
Connector: SMA Male
Connector Specification: MIL-STD-348
Hex Size: 5/16 inch
Mating Torque: 8 in-lbs [0.90 Nm]

Material Specifications

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Plating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector 1 Contact</td>
<td>Beryllium Copper</td>
<td>Gold</td>
</tr>
<tr>
<td>Insulation</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>Body</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Coupling Nut</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Housing</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Chain</td>
<td>Passivated Stainless Steel</td>
<td></td>
</tr>
</tbody>
</table>

Environmental Specifications

Temperature
Operating Range: -65 to +125 deg C

Compliance Certifications (visit www.Pasternack.com for current document)
RoHS Compliant
REACH Compliant: 12/17/2015

Plotted and Other Data
Notes:

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2 Watt RF Load With Chain Up to 18 GHz With SMA Male Input Passivated Stainless Steel from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

STANDARD TOLERANCES

DECIMAL

XX  ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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PE6082 CAD Drawing