Fixed Coaxial Attenuators

Model 34
Medium Power Fixed Coaxial Attenuator

dc to 4.0 GHz
25 Watts

Bi-directional Design

Features
- Optimized for Wireless OEM & Test Applications.
- Precision Connectors with high temperature support beads.
- Designed to meet environmental requirements of MIL-STD-3933.

Specifications
NOMINAL IMPEDANCE: 50 Ω
FREQUENCY RANGE: dc to 4.0 GHz

MAXIMUM DEVIATION OVER FREQUENCY:

<table>
<thead>
<tr>
<th>Nominal ATTN (dB)</th>
<th>dc-2 GHz</th>
<th>2 - 4 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 6, 10, 20, 30</td>
<td>± 0.60</td>
<td>± 1.00</td>
</tr>
</tbody>
</table>

MAXIMUM SWR*:

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>SWR</th>
</tr>
</thead>
<tbody>
<tr>
<td>dc - 2</td>
<td>1.10</td>
</tr>
<tr>
<td>2 - 4</td>
<td>1.20</td>
</tr>
</tbody>
</table>

POWER RATING (mounted horizontally): 25 watts average (bi-directional) to 25°C ambient temperature, derated linearly to 2.5 watts @ 125°C. Note: 3 dB model can handle 50 Watts average (bi-directional). 5 kilowatt peak (5 μsec pulse width; 0.5% duty cycle).

POWER COEFFICIENT: <0.0006 dB/dB/watt
TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C
TEMPERATURE RANGE: -55 °C to 125 °C

TEST DATA: Insertion loss test data supplied at 0.05, and 4.0 GHz. Other test data can be provided at additional cost.

CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors.

<table>
<thead>
<tr>
<th>Connector Options</th>
<th>Type/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Type N, Female</td>
</tr>
<tr>
<td>4</td>
<td>Type N, Male</td>
</tr>
</tbody>
</table>

CONSTRUCTION: Black, finned aluminum body, gold plated beryllium copper contacts.

WEIGHT: 170 g (6 oz.) maximum

PHYSICAL DIMENSIONS:

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

MODEL NUMBER DESCRIPTION:
Example:

34 - XX - XX*

Basic Model Number Attenuation Value (dB) Connector Options
1st digit is J1 side
2nd digit is J2 side

*Unit is bi-directional and full power may be applied to either J1 or J2.