Fixed Coaxial Attenuators

Model 24
Medium Power, N & SMK Connectors
Bi-Directional Design!

Features
- Designed to meet environmental requirements of MIL-DTL-3933.
- Low Intermodulation option available.
- Mode free operation to 10 GHz.

Specifications
NOMINAL IMPEDANCE: 50 Ω
FREQUENCY RANGE: dc to 8.5 GHz

<table>
<thead>
<tr>
<th>Nominal ATTN (dB)</th>
<th>24</th>
<th>24-LIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>3, 6, 10, 20</td>
<td>± 0.40</td>
<td>± 0.40</td>
</tr>
<tr>
<td>30, 40</td>
<td>± 0.60</td>
<td>± 0.60</td>
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</tbody>
</table>

MAXIMUM SWR:
Frequency (GHz) | SWR
---|---
dc - 4 | 1.20
4 - 8.5 | 1.30

3rd ORDER INTERMODULATION (24-XX-XX-LIM only!):
Reflected Levels (IM3), -100 & Through Levels (IM3), -110 dBc with two input signals @ 869 MHz and 891 MHz with average carrier power levels of +43 dBm each.

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

MODEL NUMBER DESCRIPTION:
Example:
24 - XX - XX* - LIM

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

POWER COEFFICIENT: <0.0003 dB/dB/watt
TEMPERATURE COEFFICIENT: <0.0004 dB/dB/°C
TEMPERATURE RANGE: -55°C to 125°C

CONNECTORS: Type N connectors per MIL-STD-348 interface dimensions - mate nondestructively with MIL-C-39012 connectors. SMK (2.92mm) connectors - mate nondestructively with SMA per MIL-C-39012, 3.5mm, SMK, and other 2.92mm.

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

WEIGHT: 280 g (10 oz.) maximum

PHYSICAL DIMENSIONS:

Connector | DIM A | Connector | DIM A |
---|---|---|---|
N Male | 22.9 (0.90) | SMK Male | 14.0 (0.55) |
N Female | 15.0 (0.59) | SMK Female | 12.7 (0.50) |

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

**Add -LIM to entire model number for Low Intermodulation option. Option only available in 10, 20, 30, 40 dB and is not available through Express.