Fixed Coaxial Attenuators

Model 45
Model 58
High Power Fixed Coaxial Attenuator
Convection Cooled

Specifications

Nominal Impedance: 50 Ω
Frequency Range:
- Model 45: dc to 1.5 GHz
- Model 58: dc to 5.0 GHz

Maximum Deviation Over Frequency:

<table>
<thead>
<tr>
<th>ATTN (dB)</th>
<th>45 Deviation (dB)</th>
<th>58 Deviation (dB)</th>
<th>58 LIM Deviation (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3*, 6</td>
<td>±0.50</td>
<td>±1.50</td>
<td>- - -</td>
</tr>
<tr>
<td>10, 20</td>
<td>±0.50</td>
<td>±1.50</td>
<td>±2.00</td>
</tr>
<tr>
<td>30, 40</td>
<td>±0.50</td>
<td>±1.75</td>
<td>±3.00</td>
</tr>
</tbody>
</table>

Maximum SWR:

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>45/58</th>
<th>58 LIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input/Output</td>
<td>Input</td>
<td>Output</td>
</tr>
<tr>
<td>dc - 2 (1.5*)</td>
<td>1.10</td>
<td>1.20 (1.10*)</td>
</tr>
<tr>
<td>2 - 5</td>
<td>1.15</td>
<td>1.25</td>
</tr>
</tbody>
</table>

3rd Order Intermodulation (58-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.

Physical Dimensions:

Power Rating (mounted horizontally with fins vertical): 250 watts average (unidirectional) to 55°C ambient temperature, derated linearly to 10% @ 125°C. 10 kilowatt peak (5 μsec pulse width; 1.25% duty cycle). Maximum power rating into output port is 50 watts average. Note: Model 45-3-XX is rated for 500 Watts average (unidirectional) into the input and 250 Watts average (maximum) into the output port.

Power Coefficient: <0.0001 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, 1, 2, 3, 4 and 5 GHz (Model 45 at 0.05 and 1.5 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.

Connector Options

- Type N, Female
- Type N, Male

Construction: Aluminum alloy body, stainless steel connectors; gold plated beryllium copper contacts.

Weight: 1,530 g (6 lbs, 3 oz.) maximum

Model Number Description:

Example:

58 - XX - XX - LIM

IM Option

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