ADVANTAGES

- High voltage pulse rated
- Wide range of standard attenuation values, custom values available
- Units with standard connector combinations are available from stock
- Custom connector combinations can be manufactured from standard parts.

DESCRIPTION

The 142 series attenuators are available in 8 standard attenuator values and are rated for 2.5Kv/400ns wide rectangular pulse. Any non standard value, between 1.2 and 20dB, can be manufactured.

SPECIFICATIONS

Voltage Ratio - Attenuation dB:

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage Ratio</th>
<th>Attenuation dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>142-xxx-3:</td>
<td>1.4/1 Vr</td>
<td>(3dB)</td>
</tr>
<tr>
<td>142-xxx-4:</td>
<td>1.5/1 Vr</td>
<td>(4dB)</td>
</tr>
<tr>
<td>142-xxx-6B:</td>
<td>2.0/1 Vr</td>
<td>(6dB)</td>
</tr>
<tr>
<td>142-xxx-8B:</td>
<td>2.5/1 Vr</td>
<td>(8dB)</td>
</tr>
<tr>
<td>142-xxx-10B:</td>
<td>3.2/1 Vr</td>
<td>(10dB)</td>
</tr>
<tr>
<td>142-xxx-14B:</td>
<td>5.0/1 Vr</td>
<td>(14dB)</td>
</tr>
<tr>
<td>142-xxx-20B:</td>
<td>10.0/1 Vr</td>
<td>(20dB)</td>
</tr>
<tr>
<td>142-xxx-26B:</td>
<td>20.0/1 Vr</td>
<td>(26dB)</td>
</tr>
</tbody>
</table>

Specifications are continued on the next page
HIGH VOLTAGE PULSE ATTENUATOR
MODEL 142 SERIES

SPECIFICATIONS continued

Maximum Input: 2.5kV, 400ns FWHM Pulse

Peak Input Power: 125kW at rated pulse width

Average Input Power: 2W maximum

Impedance: 50 ± 1%

Risetime through Unit: < 10ps

Bandwidth (-3dB): DC to 30GHz

Reflection-TDR: < 3% to a 100ps risetime step function

Voltage Coefficient: < 1% at rated voltage

Connectors: 142-NMFP-yy N male/female *
            142-GLP-yy GR 874 Locking
            142-HMFP-yy HNB male/female **
            142-GHMFP-yy GHV male/female ***
            142-SPJ SHV male/female ***

Dimensions: Outline drawings available

Weight: 3/4 lb max.

Ordering Information: 142-xxx-yy

-xxx Connector identifier, see list under connectors heading for our standard (stocked) configurations. Call for connector configurations not shown.

-yy Attenuation value in dB, see list of standard values under Voltage Ratio heading, or call for nonstandard values.

NOTE: Actual measured voltage ratio is recorded on each nameplate.

* Most popular general purpose lab items, in stock for immediate delivery.

** Our type HN (HNB) connectors are specially designed to obtain minimum reflection coefficient for fast risetimes. For best pulse response, our model 401-HNB male or 402-HNB female cable connector for RG214/U coax should be used for interconnection.

*** Connector has risetime limitations; please specify test pulse risetime.