DESCRIPTION
The V02.2CAL Series will accurately calibrate your existing Vector Network Analyzer (VNA) so you can obtain precise millimeter wave S-parameters in WR02.2 (325-500 GHz). All calibration kits are compatible with TRL & SSoLT two-port calibration techniques. The availability of an adjustable waveguide load enables the calibration flexibility to conduct sliding load calibration techniques (e.g., SSoLs). Each calibration kit is supplied with mechanical calibration data.

HIGHLIGHTS

APPLICATIONS

- Precision waveguide calibration components enable accurate & repeatable measurements
- Error corrected S-parameters for millimeter wave applications utilizing waveguide interfaces

ELECTRICAL AND PERFORMANCE SPECIFICATIONS (+25°C)
After a one hour warm-up period, the V02.2CAL series satisfies the following specifications.

<table>
<thead>
<tr>
<th>Electrical Characteristics</th>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Operating Frequency (WR-02.2)</td>
<td>325 GHz</td>
<td>500 GHz</td>
<td></td>
</tr>
<tr>
<td>Length of Shim (1/4 wavelength)</td>
<td>0.0098 +/- 0.0002 in</td>
<td></td>
<td></td>
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<tr>
<td>Return Loss of Fixed Load, Adjustable Load</td>
<td>&gt;20 dB</td>
<td></td>
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<tr>
<td>Damage Level</td>
<td>&gt;13 dBm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>+20 °C</td>
<td>+25 °C</td>
<td>+30 °C</td>
</tr>
</tbody>
</table>

1 Specifications are subject to change without notification.
2 Test Port Flange Configuration is compatible with MIL-DTL-3922/67D (UG387/U-M)

ORDER INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Overview</th>
<th>Contents</th>
</tr>
</thead>
</table>
| V02.2CAL1 | Standard Calibration Kit | 1 ea. Waveguide Load  
1 ea. Waveguide Section (test artifact)  
1 ea. Precision Waveguide Flush Short  
1 ea. Precision Waveguide Shim (1/4 wavelength)  
1 ea. #4-40 Hex Screwdriver  
8 ea. Alignment Pins  
12 ea. WG Screws  
1 ea. USB Flash Drive (mechanical calibration data)  
1 ea. 3.5” Floppy Disk (mechanical calibration data) |
| V02.2CAL3 | Standard Calibration Kit plus 1 additional Load & 1 additional Short | 2 ea. Waveguide Loads  
1 ea. Waveguide Section (test artifact)  
2 ea. Precision Waveguide Flush Shorts  
1 ea. Precision Waveguide Shim (1/4 wavelength)  
1 ea. #4-40 Hex Screwdriver  
8 ea. Alignment Pins  
12 ea. WG Screws  
1 ea. USB Flash Drive (mechanical calibration data)  
1 ea. 3.5” Floppy Disk (mechanical calibration data)  
1 ea. Laminated Card (mechanical calibration data) |