DESCRIPTION
The V08CAL Series will accurately calibrate your existing Vector Network Analyzer (VNA) so you can obtain precise millimeter wave S-parameters in WR08 (90-140 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.

ELECTRICAL AND PERFORMANCE SPECIFICATIONS (+25°C)

**Electrical Characteristics**

<table>
<thead>
<tr>
<th>MIN</th>
<th>TYP</th>
<th>MAX</th>
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<tbody>
<tr>
<td>90 GHz</td>
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<td>140 GHz</td>
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**Length of Shim (1/4 wavelength)**

0.0349 +/- 0.0002 in

**Return Loss of Fixed Load, Adjustable Load**

>33 dB

**Damage Level**

+13 dBm

**Operating Temperature Range**

+20 °C +25 °C +30 °C

HIGHLIGHTS

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

APPLICATIONS

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

ORDER INFORMATION

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<th>Part Number</th>
<th>Overview</th>
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| V08CAL      | Universal Calibration Kit | 2 ea. Waveguide Loads  
1 ea. Adjustable Waveguide Load  
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) |
| V08CAL1     | 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)  
1 ea. Laminated Card (mechanical calibration data) |
| V08CAL2     | Standard Calibration Kit plus Sliding Load | 1 ea. Waveguide Load  
1 ea. Adjustable 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)  
1 ea. Laminated Card (mechanical calibration data) |