FEATURES:

- Frequency coverage: 26.5 to 170GHz
- Full waveguide band operation
- Low harmonics and spurious
- Low cost

APPLICATIONS:

- Extend microwave scalar network analyzer to millimeterwave bands

DESCRIPTION:

CNE series full band network analyzer extenders are designed to extend the industry standard low frequency scalar network analyzers to higher millimeterwave frequency range. These extenders offer an alternative way of allowing users to possess millimeterwave scalar network analyzers in a low cost way without losing all the functionalities and features that the industry standard models have to offer. These extenders deliver superior performance since they are constituted with Cernex’s high performance millimeterwave components and sub-assemblies. These CNE series come with frequency extenders (CFE series), direct or programmable attenuators, dual directional coupler and waveguide detectors.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Waveguide Band</th>
<th>Ka</th>
<th>Q</th>
<th>U</th>
<th>V</th>
<th>E</th>
<th>W</th>
<th>F</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range (GHz)</td>
<td>13.25 to 20.0</td>
<td>11.0 to 16.67</td>
<td>13.33 to 20.0</td>
<td>12.5 to 18.75</td>
<td>10.0 to 15.0</td>
<td>12.5 to 18.33</td>
<td>10.0 to 15.56</td>
<td>12.22 to 18.89</td>
</tr>
<tr>
<td>Input Power (dBm)</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
<td>+3.0 to 10.0</td>
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<tr>
<td>Output Frequency (GHz)</td>
<td>26.5 to 40.0</td>
<td>33.0 to 50.0</td>
<td>40.0 to 60.0</td>
<td>50.0 to 75.0</td>
<td>60.0 to 90.0</td>
<td>75.00 to 110.0</td>
<td>90.0 to 140.0</td>
<td>110.0 to 170.0</td>
</tr>
<tr>
<td>Dynamic Range (dB, IL)</td>
<td>40</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td>30</td>
<td>30</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>Dynamic Range (dB, RL)</td>
<td>30</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td>20</td>
<td>20</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Bias (VdcmA)</td>
<td>+12.0/180</td>
<td>+12.0/180</td>
<td>+12.0/200</td>
<td>+12.0/500</td>
<td>+12.0/550</td>
<td>+12.0/550</td>
<td>+12.0/650</td>
<td>+12.0/650</td>
</tr>
</tbody>
</table>

NOTES: CONTACT THE FACTORY FOR SPECIAL REQUIREMENTS

HOW TO ORDER:

Specify Model Number  
CNE – WG MP-- XX  
To be specified by factory  
M for Manual (Direct Reading Attenuator)  
P for Programmable (Programmable Attenuator)

Example: To order a Full Band Network Analyzer Extender, specify, CNE-XX.

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