**Direct Reading Frequency Meters**

**FEATURES:**
- Full Band
- Direct Reading
- High Resolution
- Anti-Backlash Drive

**APPLICATIONS:**
- Test Setup

**DESCRIPTION:**
*Cernexwave’s CDM* series direct reading frequency meters are available in standard waveguide sizes from 18.0 to 110.0 GHz and are designed to provide easy direct readout of frequency with a high degree of resolution and accuracy.

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>Waveguide Band</th>
<th>K</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>Waveguide Size</td>
<td>WR-42</td>
<td>WR-28</td>
<td>WR-22</td>
<td>WR-19</td>
<td>WR-15</td>
<td>WR-12</td>
<td>WR-10</td>
<td>WR-8</td>
<td>WR-7</td>
</tr>
<tr>
<td>Frequency Range (GHz)</td>
<td>18 to 26.5</td>
<td>26.5 to 40</td>
<td>33 to 50</td>
<td>40 to 60</td>
<td>50 to 75</td>
<td>60 to 90</td>
<td>75 to 110</td>
<td>90-140</td>
<td>110-160</td>
</tr>
<tr>
<td>Absolute Accuracy (%)</td>
<td>0.11</td>
<td>0.12</td>
<td>0.12</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.20</td>
<td>0.4</td>
<td>0.5</td>
</tr>
<tr>
<td>Resonance Dip (dB)</td>
<td>0.5-1.0</td>
<td>0.5-1.0</td>
<td>0.5-1.0</td>
<td>0.5-1.0</td>
<td>1.0-3.0</td>
<td>0.5-1.0</td>
<td>1.5-3.5</td>
<td>0.3-1.0</td>
<td>0.3-1.0</td>
</tr>
<tr>
<td>VSWR Max.</td>
<td>1.10</td>
<td>1.15</td>
<td>1.15</td>
<td>1.15</td>
<td>1.20</td>
<td>1.20</td>
<td>1.20</td>
<td>1.20</td>
<td>1.20</td>
</tr>
<tr>
<td>Insertion Loss (dB) Nom.</td>
<td>0.25</td>
<td>0.30</td>
<td>0.40</td>
<td>0.50</td>
<td>0.60</td>
<td>0.70</td>
<td>1.00</td>
<td>1.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Scale Divisions (MHz) Min.</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Scale Length (in)</td>
<td>74.0</td>
<td>76.0</td>
<td>78.0</td>
<td>78.5</td>
<td>77.0</td>
<td>75.0</td>
<td>58.0</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Notes:**
1. Off Resonance

**HOW TO ORDER:**
Specify Model Number

\[
\text{CDM - WG LF HF IL -- XX} \quad \text{To be specified by the factory}
\]

- Waveguide Size
- Low End Frequency
- Insertion Loss
- High End Frequency

**Example:** To order WR-15 direct reading frequency meter with an insertion loss of 0.5db, specify CDM15507505-XX

*CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE*