Direct-Reading Phase Shifters

FEATURES:

- High Accuracy
- Direct Reading Dial
- Frequency Independent
- Direct Drive With No Gears
- Continuously Adjustable Phase
- Low VSWR & Low Insertion Loss

APPLICATIONS:

- Test Equipment
- Subsystems
- Phased Arrays
- Interferometers

DESCRIPTION:

Cernex’s CDS direct reading phase shifters provide highly accurate measurement of phase shift over each full waveguide band from 26.5 to 110.0 GHz. They feature low VSWR, low insertion loss, and low insertion loss variation due to the rotation of the phasing section.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Waveguide Size</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>
</tr>
<tr>
<td>Frequency Range (GHz)</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>
</tr>
<tr>
<td>Accuracy (degrees)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>1.0</td>
<td>1.2</td>
<td>1.3</td>
<td>1.5</td>
<td>1.8</td>
<td>2.0</td>
</tr>
<tr>
<td>VSWR Max.</td>
<td>1.30</td>
<td>1.30</td>
<td>1.30</td>
<td>1.30</td>
<td>1.30</td>
<td>1.35</td>
</tr>
<tr>
<td>Average Power (Watts)</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>0.8</td>
<td>0.7</td>
<td>0.6</td>
</tr>
<tr>
<td>Weight (oz.)</td>
<td>30</td>
<td>29</td>
<td>28</td>
<td>27</td>
<td>26</td>
<td>24</td>
</tr>
</tbody>
</table>

Operating Specifications

- Phase Shift Range: 0° to 360° Direct Reading
- Read-Out: 0° to 360° in 5° divisions, with 0.5° vernier
- Loss Variation: 1.0 dB (Max.)

HOW TO ORDER:

Specify Model Number

Example: To order WR-15 direct reading phase shifter, specify CDS-15507501-XX

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

CERNEX, Inc. 766 San Aleso Avenue, Sunnyvale, CA 94085 Tel: (408) 541-9226 Fax: (408) 541-9229 11/06