Two Position Solenoid Switches

FEATURES:
- Low Loss
- Low VSWR
- Accurate Positioning
- High Isolation Between Ports

APPLICATIONS:
- Operational Systems
- Test setups

DESCRIPTION:
Cernex’s CTP series waveguide switches consists of a waveguide switch selection similar to the CWS series switch and a rotary solenoid stepping motor encased in a machined housing.

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>Isolation (dB) Min.</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Insertion Loss (dB) Max.</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
<td>0.3</td>
<td>0.4</td>
<td>0.5</td>
</tr>
<tr>
<td>VSWR Max.</td>
<td>1.15</td>
<td>1.15</td>
<td>1.15</td>
<td>1.15</td>
<td>1.15</td>
<td>1.15</td>
</tr>
<tr>
<td>Average Switching Speed (seconds)</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
</tbody>
</table>

HOW TO ORDER:
Specify Model Number

CTP – LF FF IL IS-- XX

Low End Frequency -------------------------- Isolation
High End Frequency -------------------------- Insertion Loss

Example: To order WR-15 solenoid switch with a Frequency range of 50-53 GHz, an insertion loss of 0.3 db, and isolation of 40db, specifyCTS-50530340-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE