50 GHz Interleaver

**Features and Benefits**

- Low Insertion Loss
- Highly Reliable and Stable
- Epoxy Free in Optical Path
- Wide and Flat Top Pass Band
- Purely Passive, No Thermal or Electrical Inputs Needed

**Standards**

<table>
<thead>
<tr>
<th>Section</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS</td>
<td>Free of hazardous substances according to RoHS2011/65/EU</td>
</tr>
<tr>
<td>Design and Test Criteria</td>
<td>Product is qualified to Telcordia GR-1209-CORE and GR-1221-CORE</td>
</tr>
</tbody>
</table>

Corning’s Interleaver can greatly expand DWDM channel counts, increasing capacity in existing DWDM transport networks. Its stability and wide pass band make it suitable for 80 channel DWDM systems. The Corning Interleaver has high isolation, low insertion loss, and low ripple. It supports both mux and demux functions.
50 GHz Interleaver

Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Wavelength Range</td>
<td>1525~1565 nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Passband Width (Even/Odd)</td>
<td>ITU ± 12/5 GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Stop Band Width (Odd/Even)</td>
<td>ITU ± 12.5 GHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss from 50 GHz Port to 100 GHz Port</td>
<td>1.2 dB</td>
<td>1.7 dB</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss Ripple</td>
<td></td>
<td>0.5 dB</td>
<td></td>
</tr>
<tr>
<td>Insertion Loss Uniformity</td>
<td></td>
<td>0.5 dB</td>
<td></td>
</tr>
<tr>
<td>Isolation between Odd and Even Port</td>
<td>19 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return Loss</td>
<td>42 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Directivity</td>
<td>50 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDL</td>
<td></td>
<td>0.35 dB</td>
<td></td>
</tr>
<tr>
<td>PMD</td>
<td></td>
<td>0.2 ps</td>
<td></td>
</tr>
<tr>
<td>Maximum Optical Power</td>
<td></td>
<td>500 mW</td>
<td></td>
</tr>
<tr>
<td>Chromatic Dispersion with IU ± 12.5 GHz</td>
<td>-120 ps/nm</td>
<td></td>
<td>+120 ps/nm</td>
</tr>
</tbody>
</table>

Shipping Package

Packaging Dimensions

Standard 1U LGX®
50 GHz Interleaver

Ordering Information

50 GHz Interleaver

I N T - ☐☐☐☐☐ - ☐☐☐☐☐

1 Select Type
100: 100 GHz
050: 50 GHz

2 Select Customization
0: Standard or Running number used for customized type

3 Select Pigtail Type
2: 250 µm Cassette
3: 900 µm Cassette
4: LGX® or Rack Mount
5: 3 mm Cassette
6: 2 mm Cassette
Z: Others

4 Select Connector*
A: None
L: LC/PC
P: FC/PC
Q: FC/APC
S: SC/PC
T: SC/APC
U: MU/PC
Z: Others

5 Select Starting Channel
For Example:
NNN = 200 for starting ITU channel 20.0
NNN = 205 for starting ITU channel 20.5

Note:
*Specifications do not include connector loss.

These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. Please contact OEM sales at +1-408-736-6900 or oemsales@corning.com and visit www.corning.com/opcomm/oem for sales support.