Features and Benefits

Wide Operating Wavelength
Wide Temperature Range
Low Insertion Loss & High Isolation
Compact Size
Epoxy-Free in Optical Path

Standards

RoHS
Free of hazardous substances according to RoHS2011/65/EU

Design and Test Criteria
Product is qualified to Telcordia GR-1209-CORE and GR-1221-CORE

Corning's hybrid isolator WDM is a combination of a wavelength division multiplexer and an isolator in a compact package. This product has an extremely low insertion loss and a variety of fiber options. Corning's isolator WDM is ideal for fiber optic amplifier as well as fiber laser applications.
### Specifications – Isolator WDM

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Single-Stage</th>
<th></th>
<th></th>
<th>Dual-Stage</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum</td>
<td>Typical</td>
<td>Maximum</td>
<td>Minimum</td>
<td>Typical</td>
<td>Maximum</td>
</tr>
<tr>
<td>Signal Wavelength ((\lambda_s))</td>
<td>1530-1570 nm</td>
<td></td>
<td></td>
<td>1530-1570 nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pump Wavelength ((\lambda_p))</td>
<td>970-990 nm</td>
<td></td>
<td></td>
<td>970-990 nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isolation (C- (\rightarrow) S, (\lambda_s), 23°C, All SOP)</td>
<td>28 dB</td>
<td>-</td>
<td>-</td>
<td>45 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isolation (S- (\rightarrow) C, (\lambda_p), 23°C, All SOP)</td>
<td>28 dB</td>
<td></td>
<td></td>
<td>28 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (S- (\rightarrow) C, (\lambda_s), 0-70°C, All SOP)</td>
<td></td>
<td>1.2 dB</td>
<td></td>
<td>1.3 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss (P- (\rightarrow) C, (\lambda_p), 0-70°C, All SOP)</td>
<td></td>
<td>0.6 dB</td>
<td></td>
<td>0.6 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WDL</td>
<td></td>
<td>0.5 dB</td>
<td></td>
<td>0.5 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PDL</td>
<td></td>
<td>0.10 dB</td>
<td></td>
<td>0.10 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PMD</td>
<td></td>
<td>0.1 ps</td>
<td></td>
<td>0.1 ps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Directivity (S- (\rightarrow) P, (\lambda_s), All SOP)</td>
<td>55 dB</td>
<td></td>
<td></td>
<td>55 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return Loss (For SM fiber)</td>
<td>50 dB</td>
<td></td>
<td></td>
<td>50 dB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Handling</td>
<td>500 mW</td>
<td></td>
<td></td>
<td>500 mW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to +70°C</td>
<td></td>
<td></td>
<td>0°C to +70°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°C to +85°C</td>
<td></td>
<td></td>
<td>-40°C to +85°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Shipping Package

<table>
<thead>
<tr>
<th>Packaging Dimensions</th>
<th>Fiber Type</th>
<th>Pigtail Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>((\phi)) 5.5 mm x (L) 45° mm Including boots</td>
<td>Pump Port, Common Port: Corning® HI 1060; Signal Port: Corning® MF-28e®; Special fibers available upon request</td>
<td>1 m (Standard)</td>
</tr>
</tbody>
</table>

**Note:**
*250 µm bare fiber; our 900 µm buffer solution is at 49 mm length*
Ordering Information

Isolator WDM

Select Type
1: Single-Stage
2: Dual-Stage

Select Pump Wavelength
1: 980 nm
2: 1480 nm

Select Pump Fiber Type
1: 1060 Fiber
2: Double-Cladding Fiber
3: Multimode Fiber
4: Other

Select Fiber Type
0: 250 µm Bare Fiber
1: 900 µm Loose Tube

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

Select Customization
000: Running number used for special types or custom made

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.