960-1000nm High Power Optical Isolator

FEATURES
- High Isolation
- Epoxy-Free Optical Path
- High Reliability and Stability

APPLICATIONS
- Fiber Optic Amplifiers
- Fiber Optic Instruments
- Transmitters and Fiber Lasers

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>High Power Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength (λc)</td>
<td>nm</td>
<td>975, 980, 990, 1000</td>
</tr>
<tr>
<td>Operating Wavelength Range</td>
<td>nm</td>
<td>+/-10</td>
</tr>
<tr>
<td>Peak Isolation (Typ.)</td>
<td>dB</td>
<td>28</td>
</tr>
<tr>
<td>Min. Isolation (23°C)</td>
<td>dB</td>
<td>22</td>
</tr>
<tr>
<td>Typical Insertion Loss (λc, 23°C)</td>
<td>dB</td>
<td>1.3</td>
</tr>
<tr>
<td>Max. Insertion Loss (λc, 23°C)</td>
<td>dB</td>
<td>1.5</td>
</tr>
<tr>
<td>Optical Return Loss (Input/Output)</td>
<td>dB</td>
<td>50/50</td>
</tr>
<tr>
<td>Max. Polarization Dependent Loss</td>
<td>dB</td>
<td>0.15</td>
</tr>
</tbody>
</table>

Configuration
- Standard: 2-Port; Y Type: 3-Port, Backward Power Guide Out

Fiber Type
- Input&Output
- HI1060 Fiber or 10/125um SC Fiber (E)
- 10/125um DC Fiber (O), 15/130um DC Fiber (W)
- 20/130um DC Fiber (Q) or 25/250um DC Fiber (R)

3rd Port (Y Type)
- Same Fiber or 105/125um MM Fiber

Fiber Tensile Load
- N
- 5

Max. Optical Power (CW)
- W
- 0.3, 0.5, 1, 2, 3, 5, 10, 15, 20, 30, 50, 60, 80, 100

Max. Backward Average Power
- W
- 0.3, 0.5, 1, 2, 3, 5, 10

Operating Temperature
- °C
- 0~50

Storage Temperature
- °C
- -20~75

Note: 1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.5dB higher, RL is 5dB lower.
3. Only guarantee 1W continuous wave (CW) power thru testing for connectors added.
4. Suggest to use Y type for >20W Optical Power or continuous backward power of ≥500mW.
5. Devices for higher optical power or with other type fiber or consigned fiber are also available; Devices can only work in the core of Double Cladding (DC) Fiber, Cladding Power must be stripped before connecting the device.
6. Package dimensions may be slightly different for different optical power.

PACKAGE DIMENSION

ORDERING INFORMATION (PN)

FISO-NNN - (C) HP NN - (NN) - (C) C NN - CC/CCC

<table>
<thead>
<tr>
<th>Center Wavelength</th>
<th>3rd Port Fiber</th>
<th>Optical Power</th>
<th>Backward Power</th>
<th>Fiber Type</th>
<th>Fiber Sleeve</th>
<th>Fiber Length</th>
<th>Connector Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>975~975nm</td>
<td>Y = Same Fiber</td>
<td>1 = 1W</td>
<td>0 = 500mW</td>
<td>I = 10/125um SC Fiber</td>
<td>I = Bare Fiber</td>
<td>0.5~0.5m</td>
<td>N = Without Connector</td>
</tr>
<tr>
<td>980~980nm</td>
<td>X = 105/125um SC Fiber</td>
<td>5 = 5W</td>
<td>I = 1W</td>
<td>O = 20/130um DC Fiber</td>
<td>L = Loose Tube</td>
<td>15~1.0m</td>
<td>FC/FLC/FLC Connector</td>
</tr>
<tr>
<td>990~990nm</td>
<td>Blank for Standard</td>
<td>10 = 10W</td>
<td>10 = 10W</td>
<td>I = 25/250um DC Fiber</td>
<td>2 = 2mm Cable</td>
<td>15~1.5m</td>
<td>LC/PC/FC/PC Connector</td>
</tr>
<tr>
<td>1000~1000nm</td>
<td>100 = 100W</td>
<td>Blank for 300mW</td>
<td>Blank for HI1060 Fiber</td>
<td>3 = 3mm Cable</td>
<td>20~2.0m</td>
<td>SC/UPC/SC/UPC Connector</td>
<td></td>
</tr>
</tbody>
</table>

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