3-port Polarization Insensitive Optical Circulator
S+C+L Band

The 3 port S+C+L Band Polarization Insensitive Optical Fiber Circulator is a fiber optic component built with single mode fiber. It allows light to be transmitted in only one direction while blocking the opposite transmission, its light path is port 1 to port 2, and port 2 to port 3. The fiber circulator is widely used in optical fiber networks and fiber instruments. High Power handling is available upon request.

Features
- Low IL & High Isolation
- High Reliability and Stability
- Optical Path Epoxy-free
- High Power available on request

Applications
- EDFA
- Fiber Instrument
- DWDM OADM System
- Test & Measurement

Performance Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength (λc)</td>
<td>S+C+L Band: 1460 to 1620</td>
<td>nm</td>
</tr>
<tr>
<td>Configuration</td>
<td>1×2, (port 1→2, 2→3)</td>
<td></td>
</tr>
<tr>
<td>Typ. Insertion Loss (λc, port 1→2, 2→3)</td>
<td>0.9</td>
<td>dB</td>
</tr>
<tr>
<td>Max. Insertion Loss (λc, port 1→2, 2→3)</td>
<td>1.1</td>
<td>dB</td>
</tr>
<tr>
<td>Typ. Isolation (λc, port 2→1, 3→2)</td>
<td>50</td>
<td>dB</td>
</tr>
<tr>
<td>Min. Isolation (λc, port 2→1, 3→2)</td>
<td>40</td>
<td>dB</td>
</tr>
<tr>
<td>Max. PDL</td>
<td>0.15</td>
<td>dB</td>
</tr>
<tr>
<td>Max. PMD</td>
<td>0.2</td>
<td>ps</td>
</tr>
<tr>
<td>Min. Cross Talk (port 1→3)</td>
<td>50</td>
<td>dB</td>
</tr>
<tr>
<td>Min. Directivity</td>
<td>50</td>
<td>dB</td>
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<tr>
<td>Min. Return Loss</td>
<td>50</td>
<td>dB</td>
</tr>
<tr>
<td>Max. Optical Power (Continuous Wave)</td>
<td>500 (higher is available upon request)</td>
<td>mW</td>
</tr>
<tr>
<td>Max. Tensile Load</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>SMF-28e Fiber</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-5 to +70</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to +85</td>
<td>°C</td>
</tr>
<tr>
<td>Package Dimension</td>
<td>Φ5.5×L50</td>
<td>mm</td>
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</tbody>
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Note
* Above specifications are for device without connector. For devices with connectors, IL will be 0.3dB higher, and RL will be 5dB lower.

Ordering Information

<table>
<thead>
<tr>
<th>AAA-AAA-BB-C-DD-EE</th>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
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<tbody>
<tr>
<td>Wavelength</td>
<td>Port</td>
<td>Fiber Jacket</td>
<td>Fiber Length</td>
</tr>
<tr>
<td>SCL - S+C+L Band</td>
<td>12 - 1 X 2</td>
<td>B - 250um Bare</td>
<td>05 - 0.5m</td>
</tr>
<tr>
<td>SSS - Specify</td>
<td></td>
<td>Tube</td>
<td>08 - 0.8m</td>
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<tr>
<td></td>
<td></td>
<td>L - 900um Loose</td>
<td>10 - 1.0m</td>
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<td></td>
<td></td>
<td>Tube</td>
<td>15 - 1.5m</td>
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<td></td>
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<td></td>
<td>55 - Specify</td>
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