TUNABLE FILTER PLUG-IN MODULE

DiCon’s Tunable Filter Plug-In Module de-multiplexes signals with either a 50GHz or 100GHz channel spacing. Each Plug-In Module is designed for easy integration into DiCon’s GP750 modular system. All plug-in modules require no configuration and are hot swappable, providing true plug-and-play functionality.

FEATURES

- 50 or 100GHz Channel Spacing
- Fast Tuning Speed
- Thermally Stable
- ± 50pm λ Setting Accuracy within C or L Band

APPLICATIONS

- Optical Channel Performance Monitoring
- ROADM
- Noise Suppression
- Signal Tracking
GP750 PROGRAMMABLE INSTRUMENT
TUNABLE FILTER PLUG-IN

OPTICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>RATING</th>
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</thead>
<tbody>
<tr>
<td>100GHz</td>
<td>50 GHz</td>
</tr>
<tr>
<td>Tuning Range</td>
<td>C-Band: 1529-1564 nm</td>
</tr>
<tr>
<td></td>
<td>L-Band: 1575-1610 nm</td>
</tr>
<tr>
<td>Min IL @ Peak</td>
<td>≤ 4.0 dB ≤ 5.0 dB</td>
</tr>
<tr>
<td>Bandwidth @ 1 dB</td>
<td>&gt; 0.20 nm &gt; 0.10 nm</td>
</tr>
<tr>
<td>Bandwidth @ 20 dB</td>
<td>&lt; 1.40 nm &lt; 0.86 nm</td>
</tr>
<tr>
<td>Back Reflection</td>
<td>-40 dB max.</td>
</tr>
<tr>
<td>PDL</td>
<td>0.3 dB max.</td>
</tr>
<tr>
<td>λ Setting Error</td>
<td>± 50 pm max.</td>
</tr>
<tr>
<td>Tuning Resolution</td>
<td>10 pm</td>
</tr>
<tr>
<td>Tuning Speed</td>
<td>30 ms max.</td>
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<tr>
<td>Optical Power</td>
<td>500 mW max.</td>
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<tr>
<td>Durability</td>
<td>10⁹ cycles min.</td>
</tr>
<tr>
<td>Fiber Type</td>
<td>9/125 µm single mode</td>
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</tbody>
</table>

MECHANICAL DIMENSIONS
(Units: mm)

ORDERING INFORMATION

Product Code
GPF - 1S - □ / □ - □ - 9 - □

Slot Width
1S 1-Slot Module
Custom multi-slot modules available

Number of Filters
X Specify X Filters
Maximum 4 total filters with FC connectors

Filter Configuration
100 100GHz Tunable Filter
50 50GHz Tunable Filter

Wavelength Range
15 1529 - 1564 nm
16 1575 - 1610 nm

Fiber and Jacket Type
9 Corning SMF-28 9µm fiber
Or other equivalent 9µm Singlemode fiber

Connector Type
FC/SPC FC/SPC
FC/APC FC/APC
N NONE
Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC