WDM broadband filters
1310/1550, 1310/1625, 1480/1550, 1510/1550, 1550/1625

Description
Montclair WDM broadband filters are based on thin film technology to combine and separate signals specifically in high power EDFA and WDM network applications. Component level hermetic packaging provides environmentally stable and reliable performance. WDMs are available in a variety of different operating wavelength bands, housings, and configurations.

Applications
- FTTx
- Passive Optical Networks (PONs)
- Telecom networks
- CATV / RFoG

Features
- Low insertion loss
- Low PDL
- Excellent environmental stability & reliability
- Premium grade components & connectivity
- Telcordia GR-1221 qualified
- RoHS compliant

Specifications

<table>
<thead>
<tr>
<th>Parameters</th>
<th>1310/1550</th>
<th>1310/1625</th>
<th>1480/1550</th>
<th>1510/1550</th>
<th>1550/1625</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength nm</td>
<td>Pass band</td>
<td>Reflect band</td>
<td>Pass band</td>
<td>Reflect band</td>
<td>Pass band</td>
</tr>
<tr>
<td></td>
<td>1270~1350</td>
<td>1460~1620</td>
<td>1450~1495</td>
<td>1528~1563</td>
<td>1528~1563</td>
</tr>
<tr>
<td>Insertion loss dB</td>
<td>Pass channel</td>
<td>≤ 1.0</td>
<td>Reflect channel</td>
<td>≤ 0.6</td>
<td>Pass channel</td>
</tr>
<tr>
<td>Isolation dB</td>
<td>Pass channel</td>
<td>≥ 35</td>
<td>Reflect channel</td>
<td>≥ 15</td>
<td>Pass channel</td>
</tr>
<tr>
<td>Flatness dB</td>
<td>≤ 0.5</td>
<td>Pass channel</td>
<td>≥ 50</td>
<td>Reflect channel</td>
<td>≥ 45</td>
</tr>
<tr>
<td>Directivity dB</td>
<td>≥ 50</td>
<td>Pass channel</td>
<td>≥ 45</td>
<td>Reflect channel</td>
<td>≤ 0.10</td>
</tr>
<tr>
<td>Return loss dB</td>
<td>≥ 45</td>
<td>Pass channel</td>
<td>≥ 45</td>
<td>Reflect channel</td>
<td>≤ 0.10</td>
</tr>
<tr>
<td>PDL dB</td>
<td>≤ 0.10</td>
<td>Pass channel</td>
<td>≤ 0.10</td>
<td>Reflect channel</td>
<td>≤ 0.10</td>
</tr>
<tr>
<td>PMD ps</td>
<td>≤ 0.10</td>
<td>Pass channel</td>
<td>≤ 0.10</td>
<td>Reflect channel</td>
<td>≤ 0.10</td>
</tr>
<tr>
<td>Power handling mW min.</td>
<td>≤ 300</td>
<td>Pass channel</td>
<td>≤ 300</td>
<td>Reflect channel</td>
<td>≤ 300</td>
</tr>
<tr>
<td>Operating / Storage Temp. °C</td>
<td>-40 to +85</td>
<td>Pass channel</td>
<td>-40 to +85</td>
<td>Reflect channel</td>
<td>-40 to +85</td>
</tr>
</tbody>
</table>

Note: Above values do not include connectors; values shown reflect testing under room temperature

Features
- Bend insensitive LWP SM fiber per ITU G657A / G652D
WDM broadband filters
1310/1550, 1310/1625, 1480/1550, 1510/1550, 1550/1625

<table>
<thead>
<tr>
<th>Housing type &amp; dimensions</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGX® module (HxDxW)</td>
<td>129x125x28</td>
</tr>
<tr>
<td>Mini-cassette (HxWxL)</td>
<td>8x60x75</td>
</tr>
<tr>
<td>Rack-mount (WxDxH)</td>
<td>482 x 230 x 44</td>
</tr>
<tr>
<td>Stainless steel tube</td>
<td>5.5 x 34 (250um) / 5.5 x 43 (900um)</td>
</tr>
</tbody>
</table>

Ordering information

1. Packaging type: M F T - 1 - 2 - 3 - 4 / 4 - 5
2. Operating wavelength:
   - MC: Mini-cassette 35 1310/1550
   - M: LGX® module     62 1310 / 1625
   - R: Rack-mount       48 1480 / 1550
   - T: Tube             51 1550/1625
   - 55 1550/1625
3. Configuration: 00 Adapter ports
   - 20 2mm fiber cable
   - 30 3mm fiber cable
   - 90 900um fiber cable
4. Adapter/connector type:
   - A: AFC
   - C: FC/APC
   - U: FC/UPC
   - L: ALC
   - C: LC/APC
   - U: LC/UPC
   - S: ASC
   - C: SC/APC
   - U: SC/UPC
   - P: PL
   - T: Pigtail

5. Fiber length
   - Input / output (m)
   - 0.5 ~ 5

NOTE:
Add (2) to end of p/n for 2 WDMs in a single slot wide LGX® module.