Coarse Wavelength Division Multiplexing (CWDM) Mux/Demux

Applications
- Fast Ethernet, Gigabit and 10G Ethernet network
- Fiber channel and Sonet/SDH
- Metro and Campus networks

Features | Benefits
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Coarse WDM technology | 20nm step for each channel, allows for the use of less expensive components to offer a cost affordable solution to enhance fiber capacity
4/8/16 channel Mux/Demux | Expand capacity using existing fiber infrastructure, scalability to grow fiber capacity with little or no increased cost
High density solution | 1RU chassis hold 2 modules, small footprint saves the expensive rack space, fits well within the customer premises
Passive unit | Passive equipment that uses no electrical power
Protocol transparent | Full independence from transmission speed and transmission protocols such as Gigabit, 10G Ethernet and Fiber Channel
Plug and play | Installation requires no configuration, simple to install and use
Extended temperature range | Designed for a wide temperature range (-20 to 70°C) that can fit for Enterprise and Service Provider applications
## Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>CWDM-M551LCR-B</th>
<th>CWDM-M947LCR-B</th>
<th>CWDM-M1631LCR-B</th>
<th>CWDM-A2A8xxLCR-B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channels</td>
<td>4 Channels + OSC Duplex LC</td>
<td>8 Channels + OSC Duplex LC</td>
<td>16 Channels</td>
<td>1 Channel with E/W Lines</td>
</tr>
<tr>
<td>Insertion Loss with Connector</td>
<td>&lt;= 1.68dB</td>
<td>&lt;= 2.5dB</td>
<td>&lt;= 3.2dB</td>
<td>In-Drop &lt; 0.9 dB</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Add-Out &lt; 0.9 dB</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>In-Out &lt; 0.8 dB</td>
</tr>
<tr>
<td>Weight</td>
<td>0.88 lbs. [0.40 kg]</td>
<td>0.9 lbs. [0.41 kg]</td>
<td>1 lb. [0.46 kg]</td>
<td>0.88 lbs. [0.40 kg]</td>
</tr>
</tbody>
</table>

### All Mux/Demux

- **Channel Wavelength**: ITU & ITU+1 (nm)
- **Center Wavelength Accuracy**: +0.5 (nm)
- **Channel Spacing**: 20 (nm)
- **Channel Passband bandwidth (nm)**: +6.5 (nm)
- **Channel Ripple**: 0.3dB
- **Isolation Adjacent**: > 30dB
- **Non-Adjacent**: > 40dB
- **Insertion Loss Temperature Sensitivity**: <= 0.005dB/°C
- **Wavelength Temperature Shifting**: <0.002 nm/°C
- **Polarization Dependent Loss**: <0.1dB
- **Polarization Mode Dispersion**: <0.1 PS
- **Directivity**: >50dB
- **Return Loss**: >50 dB
- **Mounting**: 19” Rack Mount
- **Dimensions**: Width: 8.46” [215 mm] Depth: 7.68” [195 mm] Height: 1.24” [31.5 mm]
- **With Chassis**: Width: 17.44” [443 mm] Depth: 9.84” [250 mm] Height: 1.73” [44 mm]
- **Environment**: Operating: -20°C to +70°C Storage: -40°C to +85°C
- **Warranty**: Lifetime