**Features:**

- Low optical insertion loss
- Cost-effective CWDM technology
- Mux/DeMux eight wavelengths
- Monitor port available
- Dual LC connectors
- Color coded for easy installation
- Reliable passive WDM technology
- Scales easily for ring networks
- Low-profile modular design
- Fits in 1RU 19” rack mount chassis
- RoHS compliant

**CWDM MUX/DEMUX-8 w/TAP Plug-in Module**

CWDM-8 w/TAP plug-in module is a passive optical add/drop multiplexer designed for metro access applications that represents the state of the art in fiber optics design. The MUX/DEMUX module adds and drops eight CWDM wavelengths channels from network traffic and passes the other channels. The module also includes a monitor port to provide customers capability to monitor and troubleshoot networks. Finisar’s unique CWDM design maps the channels into two-fiber paths, going in opposite directions into a network (east/west).

Added/dropped channels can be connected to any of Finisar’s CWDM transceivers on the equipment side. A grid of eight CWDM wavelengths is available from Finisar. The CWDM plug-in module plugs into one half of a 1RU, 19” rack mount chassis for simple installation and modularity. This Chassis based system allows a network equipment manufacturer to add CWDM capability to any existing networks with simple pluggable interface.

The equipment ports of the MUX/DEMUX plug-in module are color coded to match the wavelength of Finisar’s CWDM transceiver to simplify installation and troubleshooting without having to remove the transceivers from the local equipment. This MUX/DEMUX module delivers dramatic cost savings to network equipment manufacturers, enabling them to develop metro access systems that are lower in cost, easier to provision and simpler to operate.

**MUX/DEMUX-8 w/TAP Plug-in Module**

**Specifications**

**Mechanical**

Dimensions: 8.3” x 1.7” x 10.4”, 210mm x 43mm x 264mm, plug-in for 1RU rack-mount

Connectors:
- Network side: 1 dual LC/PC
- Equipment side: 8 dual LC/PC
- Monitor side: 1 dual LC/PC

**Optical Center wavelengths:**

<table>
<thead>
<tr>
<th>MUX/DEMUX-8 w/TAP Plug-in</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 1471 nm</td>
</tr>
<tr>
<td>• 1491 nm</td>
</tr>
<tr>
<td>• 1511 nm</td>
</tr>
<tr>
<td>• 1531 nm</td>
</tr>
<tr>
<td>• 1551 nm</td>
</tr>
<tr>
<td>• 1571 nm</td>
</tr>
<tr>
<td>• 1591 nm</td>
</tr>
<tr>
<td>• 1611 nm</td>
</tr>
</tbody>
</table>

Directivity: ≥ 50 dB
Return Loss: ≥ 45 dB
Passband Ripple: ≤ 0.5dB
PDL: ≤ 0.2dB
PMD: ≤ 0.2ps

**Environmental:**
- Operating -5 to 70°C
- Relative humidity: 10 to 85%
- Non-condensing
- Storage - 40 to 85°C
MUX/DEMUX-8 w/TAP Plug-in Module Parameter Specifications

<table>
<thead>
<tr>
<th>Passband</th>
<th>Max Insertion Loss (dB)</th>
<th>Min Isolation (dB)</th>
<th>Max Insertion Loss (dB) (Monitor Port)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Wavelength</td>
<td>Mux</td>
<td>Demux</td>
<td>Mux or Demux</td>
</tr>
<tr>
<td>+/- 6.5 nm</td>
<td>2.2</td>
<td>2.2</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td>30</td>
<td>23</td>
</tr>
</tbody>
</table>

Note: Connector loss included.

Dimensions (Unit: inch)

Ordering Information

Part Number Description
FWSF-M/D-W/TAP-8-LC  8 Wavelengths MUX/DEMUX with TAP port Plug-in Module for FWSF-CHASSIS-2, LC connectors