

## DWDM Mux/Demux Modules



### Overview

Sourcelight DWDM technology provides the flexibility to increase capacity of existing fiber infrastructure by enabling multiple channels/wavelengths over the same fiber cabling.

Each channel carries data independently from each other, allowing network designers to transport different data rates.

It's protocol and rate transparent supporting such applications as 1G/10G Ethernet, SDH/SONET and 8/4/2/1G Fiber Channel across the same fiber link.

### Features

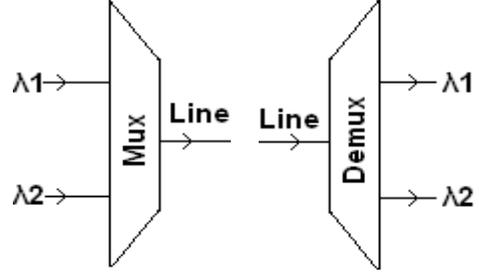
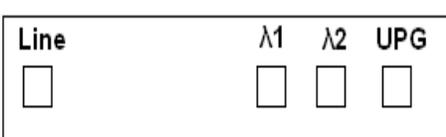
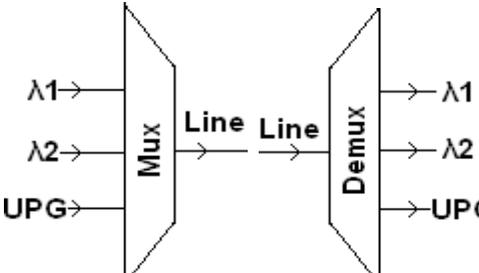
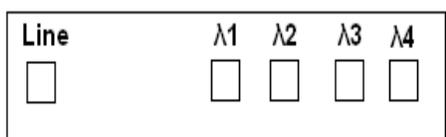
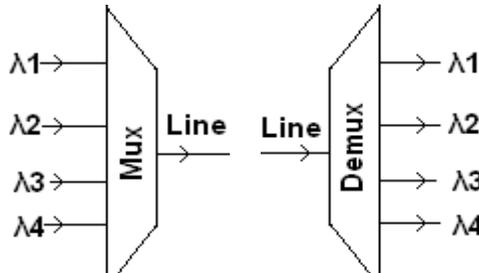
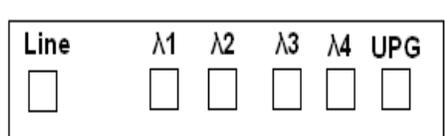
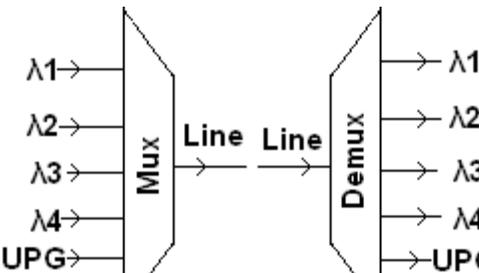
- ◆ Low Insertion Loss
- ◆ High Isolation
- ◆ Low PDL
- ◆ Compact Design
- ◆ Good channel-to-channel uniformity
- ◆ Wide Operating Wavelength: From 1460nm to 1620nm
- ◆ Wide Operating Temperature: From -40°C to 85°C
- ◆ High Reliability and Stability
- ◆ Telcordia GR-1209-CORE-2001
- ◆ Telcordia GR-1221-CORE-1999
- ◆ RoHS

### Applications

- ◆ For installation in horizontal patch extension
- ◆ High Density Fiber Management
- ◆ Telecommunications networks and Broadband
- ◆ DWDM System
- ◆ PON Networks
- ◆ CATV Links

### Technical Specification

#### DWDM Mux/Demux Modules

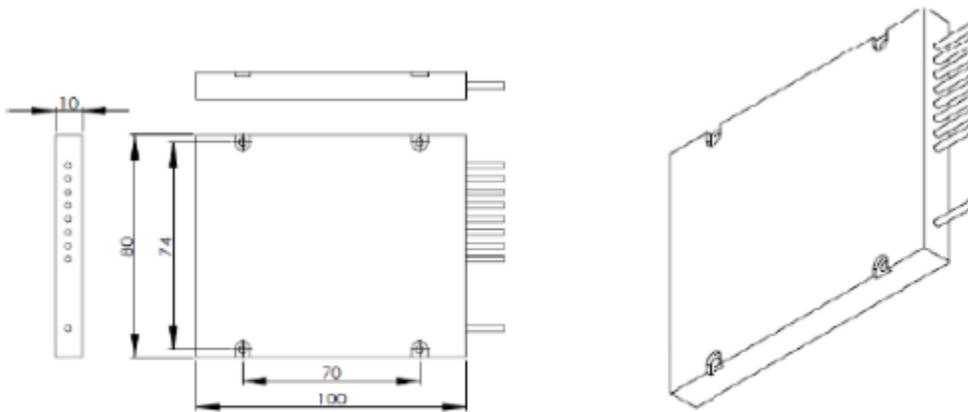
<p><b>2 Channel DWDM Mux/Demux</b></p> 		<p>λ1, λ2 IL Link(dB): ≤1.6 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620</p>
<p><b>2CH+Upgrade DWDM Mux/Demux</b></p> 		<p>λ1, λ2, Upgrade IL Link(dB): ≤1.8 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Upgrade Channel: ≥12 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620</p>
<p><b>4Channel DWDM Mux/Demux</b></p> 		<p>λ1, λ2, λ3, λ4 IL Link(dB): ≤2.0 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620</p>
<p><b>4CH+Upgrade DWDM Mux/Demux</b></p> 		<p>λ1, λ2, λ3, λ4, Upgrade IL Link(dB): ≤2.2 Isolation(dB): Adjacent: ≥30 Non-Adjacent: ≥40 Upgrade Channel: ≥12 Return Loss (dB): ≥45 Operating Wavelength(nm): 1460~1620</p>

<p><b>8 Channel DWDM Mux/Demux</b></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>Line <math>\lambda 1</math> <math>\lambda 2</math> <math>\lambda 3</math> <math>\lambda 4</math> <math>\lambda 5</math> <math>\lambda 6</math> <math>\lambda 7</math> <math>\lambda 8</math></p> <p>□ □ □ □ □ □ □ □</p> </div>		<p><math>\lambda 1, \lambda 2, \lambda 3, \lambda 4, \lambda 5, \lambda 6, \lambda 7, \lambda 8</math>          IL Link(dB): <math>\leq 3.2</math>          Isolation(dB):          Adjacent: <math>\geq 30</math>          Non-Adjacent: <math>\geq 40</math>          Return Loss (dB): <math>\geq 45</math>          Operating Wavelength(nm):          1460~1620</p>
<p><b>8CH+Upgrade DWDM Mux/Demux</b></p> <div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p>Line <math>\lambda 1</math> <math>\lambda 2</math> <math>\lambda 3</math> <math>\lambda 4</math> <math>\lambda 5</math> <math>\lambda 6</math> <math>\lambda 7</math> <math>\lambda 8</math> UPG</p> <p>□ □ □ □ □ □ □ □ □</p> </div>		<p><math>\lambda 1, \lambda 2, \lambda 3, \lambda 4, \lambda 5, \lambda 6, \lambda 7, \lambda 8, \text{Upgrade}</math>          IL Link(dB): <math>\leq 3.3</math>          Isolation(dB):          Adjacent: <math>\geq 30</math>          Non-Adjacent: <math>\geq 40</math>          Upgrade Channel: <math>\geq 12</math>          Return Loss (dB): <math>\geq 45</math>          Operating Wavelength(nm):          1460~1620</p>

**Notes:**

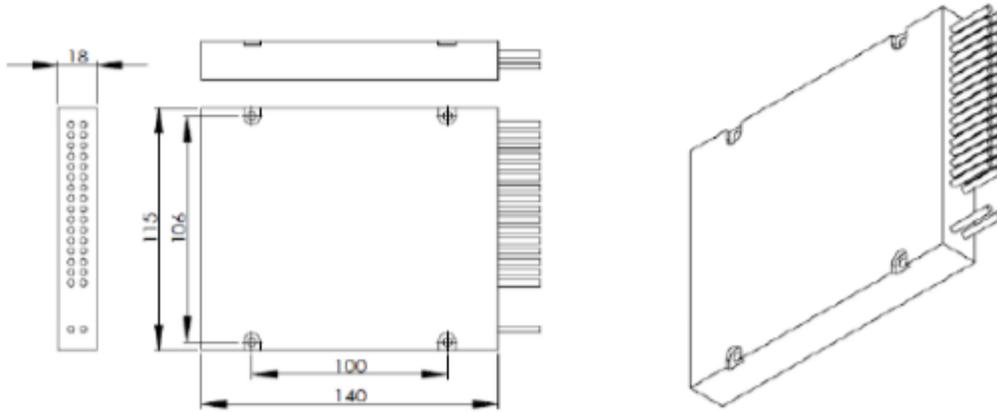
1.  $\lambda = \text{ITU}$
2.  $\lambda = \text{C01, C02, C03...C72}$
3. Specified with connectors.
4. Available modules or LGX or 19 "case packaging.
5. Operating Temperature (°C): -5~75.
6. Storage Temperature (°C): -40~85.

**5. Mechanical Dimensions**  
**CWDM Mux/Demux Module**



100X80X10

Figure1. Assembly drawing for DWDM Mux/Demux Module

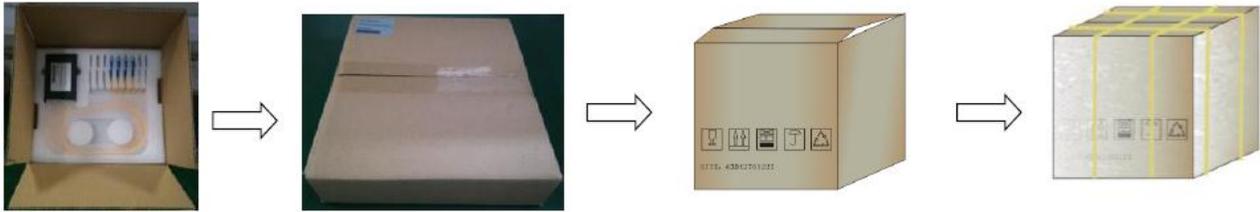


140X115X18



Figure2. Assembly drawing for DWDM Mux/Demux Module

## 6. Packing DWDM Module



## DWDM LGX



## DWDM 19" Rack-Mount



### Shenzhen Sourcelight Technology Co., Ltd

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