

Modular CWDM (Single Channel OADM-Low Loss)

Brotechs introduces the mux family of products, which are designed for cost effective multiwavelength network applications. Channel spacing of 20 nm with wide bandpass characteristics allow for non-temperature controlled lasers to be used in transmitters. Based on Brotechs's proven thin film technology, Mux CWDMs allow for single, four and eight wavelengths to be used for uni-or bi-directional transmission. Like all Brotechs DWDM products, these devices are designed for long life service under the most demanding field conditions.

Applications

- **Sensor System**
- **10 GB Ethernet**
- **CATV Systems**
- **Metro Optical Networks**
- **Metro Access Networks**

Features

- **20 nm Channel Separation**
- **High Isolation**
- **Low Insertion Loss**
- **Epoxy-Free Optical Path**
- **Tap Monitor Ports**

Specifications

Parameters	Single Channel		
	Minimum	Typical	Maximum
Center Wavelength $\lambda_c(x=CH)$	"CH=1"=1471, "CH=2"=1491, "CH=3"=1511, "CH=4"=1531, "CH=5"=1551, "CH=6"=1571, "CH=7"=1591, "CH=8"=1611 nm \pm 20nm		
Insertion Loss – Add or Drop Channel*			1.5dB
Insertion Loss – Express Channel*			1.7dB
Insertion Loss – Tap Ports	17dB		23dB
Passband Width	12nm		
Isolation – Add or Drop Channel	30dB		
Isolation – Express Channel	30dB		
Return Loss	45dB		
Directivity	50dB		
PDL			0.2dB
PMD			0.2ps
Maximum Optical Power	300mW		
Operating Temperature	-5°C to +65°C		
Storage Temperature	-40°C to +85°C		

Notes:* Specification includes coupler loss connector loss.





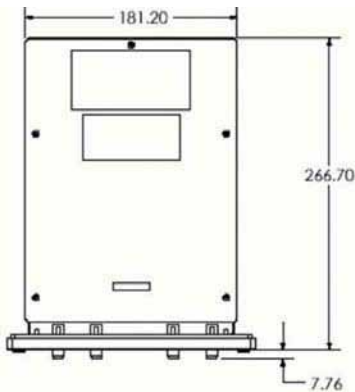
Dimensions

Half Width Rack Mount (Standard 19 inch Rack Mount accommodates two Half-Width Rack Mounts)

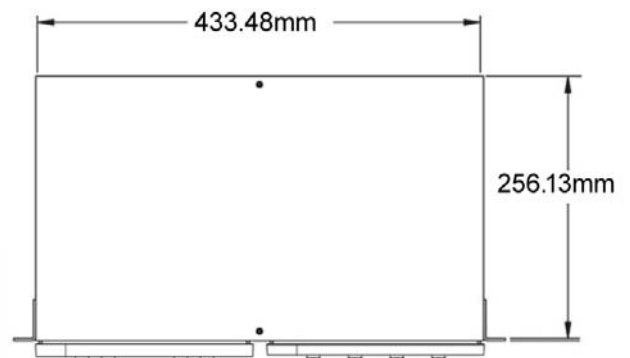
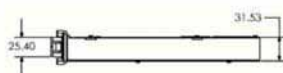
Fiber Type: Corning SMF-28e or compatible, 900µm



Drawings



Mechanical drawing of half width rack mount



Mechanical drawing of 19 inch rack mount

Ordering Information

4120-40084LX000

L: LC/UPC connector

X:=1, ..., 8 (See specification for wavelength options)

Notes: 19 inch rack chassis is sold separately.

