

## Coarse WDM(Single Channel)

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 wavelength to be used for uni-or bi-directional mux or demux. Like all Brotechs DWDM products, these devices are designed for long life service under the most demanding field conditions. Most connector types are available for terminated ends.

### Applications

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

### Features

- **20 nm Channel Separation**
- **Bi-Directional**
- **High Isolation**
- **Low Insertion Loss**
- **Epoxy-Free Optical Path**

## Specifications

Parameters	Single Channel		
	Minimum	Typical	Maximum
Passband Width	$\Delta\lambda_c \pm 6.5\text{nm}$		
Pass Channel Insertion Loss		0.4dB	0.5dB
Reflection Channel Loss		0.3dB	0.4dB
Adjacent Channel Isolation	30dB		
Non-Adjacent Channel Isolation	45dB		
Isolation of Pass Channel @ Reflection Port	15dB		
Optical Return Loss	45dB	50dB	
Directivity	50dB		
PDL			0.1dB
PMD			0.1ps
Maximum Optical Power	300mW		
Operating Temperature	-5°C to +65°C		
Storage Temperature	-40°C to +85°C		
Tensile Load(900 $\mu\text{m}$ Buffered)	5N Maximum		





## Dimensions

38mm x 5.0Φmm (Not Including Boots)

Fiber Type: SMF 28e Compatible

Pigtail Length: 1Meter (Standard)



## Ordering Information

Type	Package Type	Connector *	ITU Starting Wavelength **	Wavelength Remark
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M: Mux	0: 250μm Tube	0: None	1 : 1471nm	ST: Standard
D: Demux	1: 900μm Tube	1: LC/PC	2 : 1491nm	CM: Customize
	2: 250μm Case	2: SC/PC	3 : 1511nm	
	3: 900μm Case	3: ST/PC	4 : 1531nm	
	C: Customize	4: E2000/PC	5 : 1551nm	
		7: FC/PC	6 : 1571nm	
		9: MU	7 : 1591nm	
		A: LC/APC	8 : 1611nm	
		B: SC/APC		
		C: E2000/APC		
		D: FC/APC		

**Notes:**\* Specification do not include connector loss.

\*\*1271,1291,...band are available upon request.

