

## Coarse WDM(4 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 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. 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**
- **Express Channel Available**

## Specifications

Parameters	4 Channel		
	Minimum	Typical	Maximum
Center Wavelength $\Delta\lambda_c$	1471, 1491, 1511, 1531 nm or 1511, 1531, 1551, 1571 nm or 1551, 1571, 1591, 1611 nm		
Pass Channel Insertion Loss		1.6dB	2.0dB
Optional Express Channel Insertion Loss			2.5dB
Passband Bandwidth	13nm	15nm	
Passband Flatness		0.3dB	0.5dB
Adjacent Channel Isolation	30dB	40dB	
Non-Adjacent Channel Isolation	40dB	50dB	
Optical Return Loss	50dB		
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		
Tensile Load	5N Maximum		





## Dimensions

126mm x 93mm x 15mm

Fiber Type: SMF 28e Compatible

Pigtail Length: 1Meter



## Ordering Information

Type	Package Type	Connector *	ITU Starting Wavelength	Optional Channel	Wavelength Remark
4210 — 4 — [ ] — 12 — [ ] — [ ] — [ ] — [ ]					
0: Mux/DeMux Pair	2: 250µm Box	0: None	1 : 1471nm	0 : No Express	ST: Standard
M: Mux	3: 900µm Box	1: LC/PC	3 : 1511nm	1 : W/Express	CM: Customize
D: Demux	4: LGX Module	2: SC/PC	5 : 1551nm		
	C: Customize	3: ST/PC			
		4: E2000/PC			
		7: FC/PC			
		9: MU			
		A: LC/APC			
		B: SC/APC			
		C: E2000/APC			
		D: FC/APC			

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

