

# 4-Channel DWDM Modules

## 100 GHz/200 GHz

### DESCRIPTION

Browave dense wavelength division multiplexer (DWDM) is based on thin film filter technology and high-reliability micro optics packaging. Browave provides high quality DWDM with flat channel bandwidth, flexible channel configuration, low insertion loss and high isolation. It is designed to upgrade capacity easily as the system grows. All Browave products are epoxy-free in the optical path and are used in high-power applications in DWDM systems.

### FEATURES

- ↓ Telcordia GR-1221 and GR-1209 Compliance
- ↓ High Channel Isolation
- ↓ Low Insertion Loss
- ↓ Epoxy-Free Optical Path
- ↓ Customized Specifications Available

### APPLICATIONS

- ↓ Dense WDM System
- ↓ Longhaul/Metro Communication Networks
- ↓ Fiber Amplifier System
- ↓ Fiber Optic Instruments

### SPECIFICATIONS

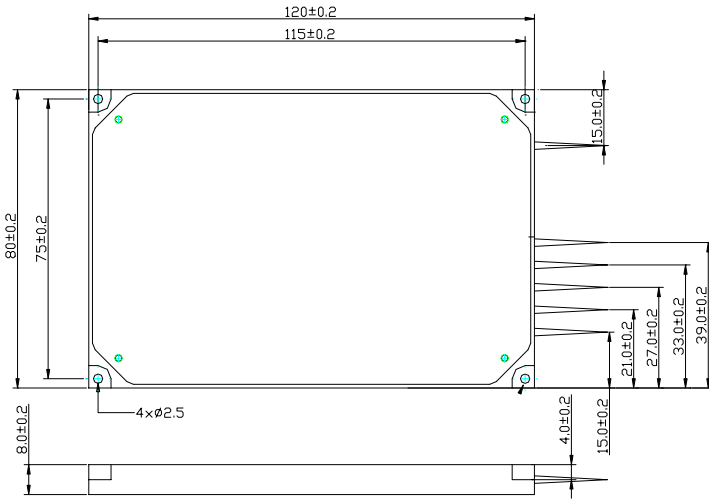
Parameter	MUX	DEMUX	MUX	DEMUX
Operating Wavelength	C & L Bands			
Channel Spacing	100 GHz		200 GHz	
Channel Passband	ITU $\pm$ 0.11 nm		ITU $\pm$ 0.25 nm	
Maximum Insertion Loss (with connector)	1.9 dB	2.2 dB	1.6 dB	1.9 dB
Minimum Adjacent Channel Isolation	12 dB	25 dB	12 dB	30 dB
Minimum Non-adjacent Channel Isolation	12 dB	40 dB	12 dB	40 dB
Minimum Directivity	50 dB	60 dB	50 dB	60 dB
Minimum Return Loss	45 dB			
Maximum Thermal Dependent Loss (relative to 23°C)	$\pm$ 0.20 dB			
Maximum Polarization Dependent Loss	0.15 dB		0.10 dB	
Maximum Polarization Mode Dispersion	0.20 ps		0.10 ps	
Maximum Channel Uniformity	1.0 dB			
Maximum Passband Ripple	0.5 dB			
Minimum Tensile Load	5 N			
Minimum Power Handling	300 mW			
Operating Temperature	-5°C ~ 70°C			
Storage Temperature	-40°C ~ 85°C			
Pigtail Type	900 $\mu$ m, 2 mm, 3 mm			
Connector Type	FC, SC, MU, LC			
Package Dimension (L x W x H)	120 x 80 x 8 mm (standard)			



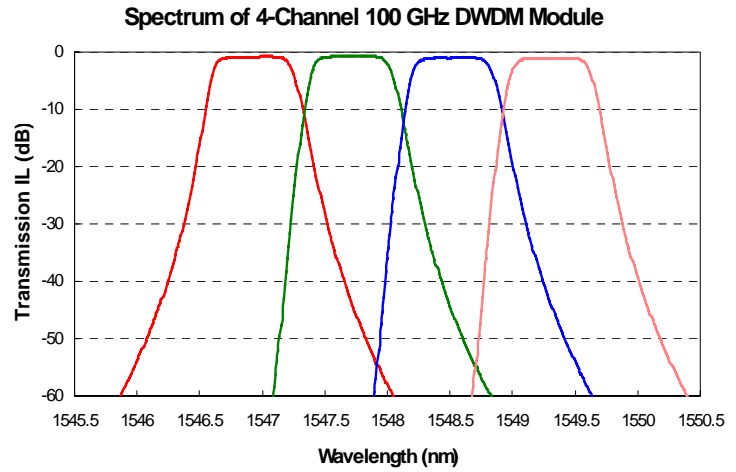
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## PACKAGING DIMENSION



## SPECTRUM



## ORDERING INFORMATION

<p><b>D W D M</b> - [ ] [ ] [ ] - [ ] [ ] [ ] [ ] [ ] [ ] [ ]</p> <p><b>Channel Spacing</b> 2 = 200 GHz 1 = 100 GHz</p> <p><b>Module Type</b> M = Mux D = Demux</p> <p><b>Number of Channel</b> 1 = 4 Channels 2 = 8 Channels 3 = 16 Channels 4 = 32 Channels C = Customized</p> <p><b>Package Size</b> S = 120x80x8 C = Customized</p>	<p><b>First ITU CH#</b> 210 = 192.1 THz 220 = 192.1 THz 310 = 193.1 THz .....</p> <p><b>Fiber Length</b> 1 = 1 meter 2 = 2 meter 3 = 3 meter C = Customized</p> <p><b>Fiber Type</b> 1 = 900um Tight Buffer 2 = Rugged 2mm Cable 3 = Rugged 3mm Cable C = Customized</p>	<p><b>Connector Type</b> 0 = None 1 = FC/UPC 2 = SC/UPC 3 = MU/UPC 4 = LC/UPC C = Customized</p>
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Note: For specified design requirements, please contact your Browave account manager or call Browave directly.



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