

# High-Isolation CWDM Modules

## 4-Channel/8-Channel

### DESCRIPTION

High-Isolation Coarse Wavelength Division Multiplexer is expanding the bandwidth of CATV communications networks. Browave's High-Isolation CWDM is based on thin film filter technology and metal bonding micro optics packaging. Browave provides high quality CWDM with flat channel bandwidth, flexible channel configuration, low insertion loss and very high isolation. It is designed to upgrade capacity easily as the system grows. All Browave products are epoxy-free in the optical path. Browave's High-Isolation CWDM components provide an ideal balance of price and performance for multiplexing and demultiplexing in CATV networks.

### FEATURES

- ↓ Telcordia GR-1221 and GR-1209 Compliance
- ↓ Very High Adjacent Channel Isolation (more than 55 dB)
- ↓ Epoxy-Free Optical Path
- ↓ Customized Specifications Available

### APPLICATIONS

- ↓ CATV Communication Networks
- ↓ Metro/Access Communication Networks
- ↓ Fiber Optic Instruments

### SPECIFICATIONS

Parameter	4-Channel	8-Channel
Operating Wavelength (*Note)	1470 (or 1471)~1610 (or 1611) nm	
Channel Spacing	20 nm	
Channel Passband	CW $\pm$ 6.5 nm	
Maximum Insertion Loss (with connector)	1.9 dB	3.1 dB
Minimum Adjacent Channel Isolation	55 dB	55 dB
Minimum Non-adjacent Channel Isolation	55 dB	55 dB
Minimum Directivity	55 dB	55 dB
Minimum Return Loss	45 dB	
Maximum Thermal Dependent Loss (relative to 23°C)	$\pm$ 0.20 dB	$\pm$ 0.25 dB
Maximum Polarization Dependent Loss	0.10 dB	
Maximum Polarization Mode Dispersion	0.1 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)	

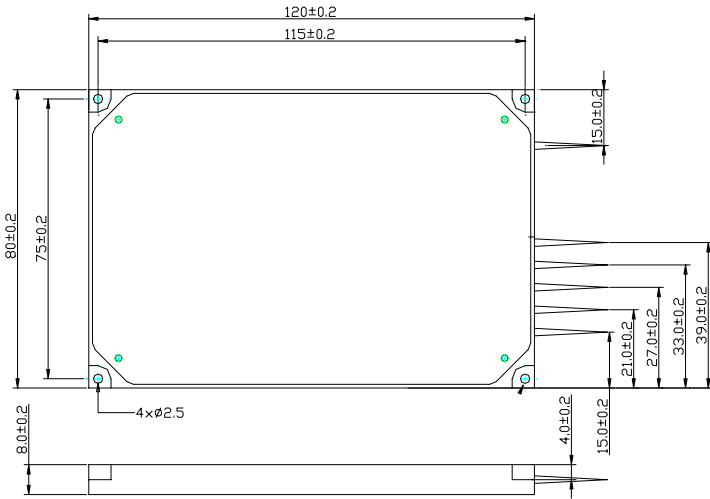
\*Note: Operating wavelength from 1270 (or 1271) to 1450 (1451) nm is also available.



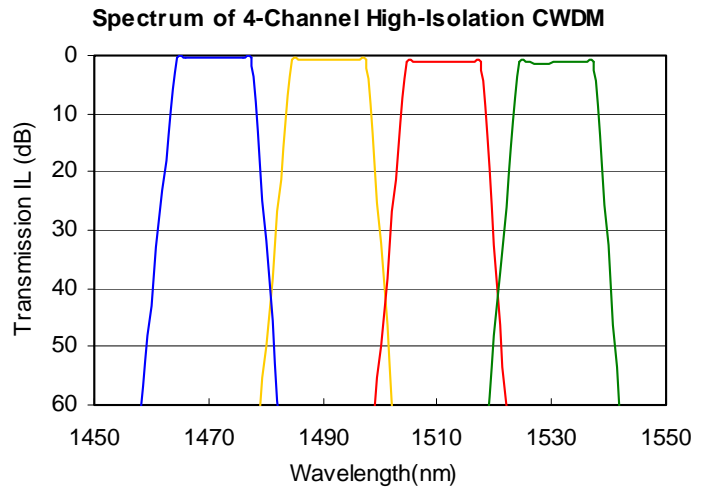
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## PACKAGING DIMENSION



## SPECTRUM



## ORDERING INFORMATION

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### Number of Channel

- 1 = 4 Channels
- 2 = 8 Channels
- 3 = 16 Channels
- C = Customized

### Package Size

- S = 120x80x8 mm (no more than 8 channels)
- or 120x80x14 mm (no more than 16 Channels)
- C = Customized

### First Ch#

- 470 = 1470
- 471 = 1471
- .....
- abc = 1abc

### Fiber Length

- 1 = 1 meter
- 2 = 2 meter
- 3 = 3 meter
- C = Customized

### Fiber Type

- 1 = 900um Tight Buffer
- 2 = Rugged 2mm Cable
- 3 = Rugged 3mm Cable
- C = Customized

### Connector Type

- 0 = None
- 1 = FC/UPC
- 2 = SC/UPC
- 3 = MU/UPC
- 4 = LC/UPC
- C = Customized

Note: For specified design requirements, please contact your Browave account manager or call Browave directly.



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