

metro CHANNEL M-8 D-8



Eight-Channel Coarse WDM (CWDM) Multiplexer and Demultiplexer

The Tsunami™ MetroChannel™ M-8 and D-8 are eight-channel coarse WDM (CWDM) multiplexer and demultiplexer modules designed for integration into metro and access optical communication networks. The multiplexer module combines eight wavelengths (channels) traveling in eight separate singlemode fibers into one singlemode fiber, while the demultiplexer module separates eight wavelengths traveling in one singlemode fiber into eight wavelengths, each traveling in a separate singlemode fiber. The modules operate independent of data rate and protocol, and are designed to work with uncooled lasers having wavelengths spaced 20 nm apart. Deployed in CWDM architectures, Tsunami's modules provide an ideal balance of price and performance for multiplexing and demultiplexing in metro and access networks.

features & benefits)

Multiplexes or demultiplexes 8 channels with 20 nm separation and 13 nm bandwidth

Ports available for upgrades to mux or demux additional channels

Designed for use with uncooled lasers

Thin film filter technology enables cost-effective performance

Operate independent of protocol and data rate

Low insertion loss supports long links

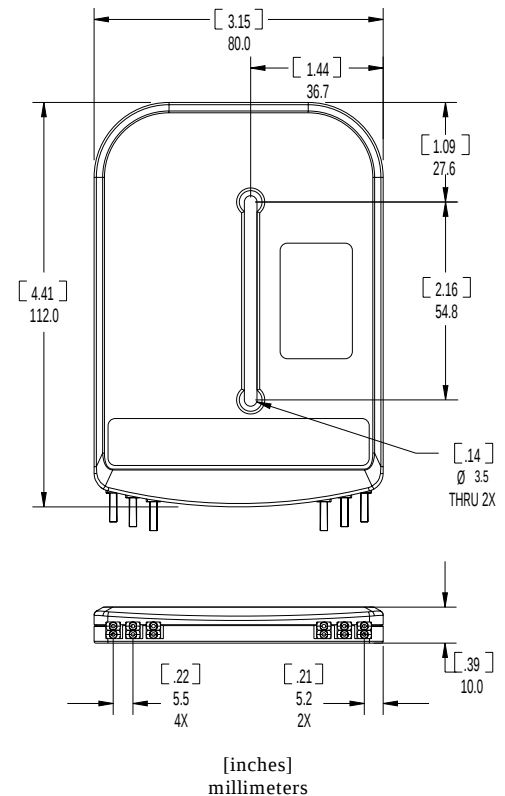
High channel isolation minimizes cross-talk

Qualified in accordance with applicable Telcordia and NEBS standards

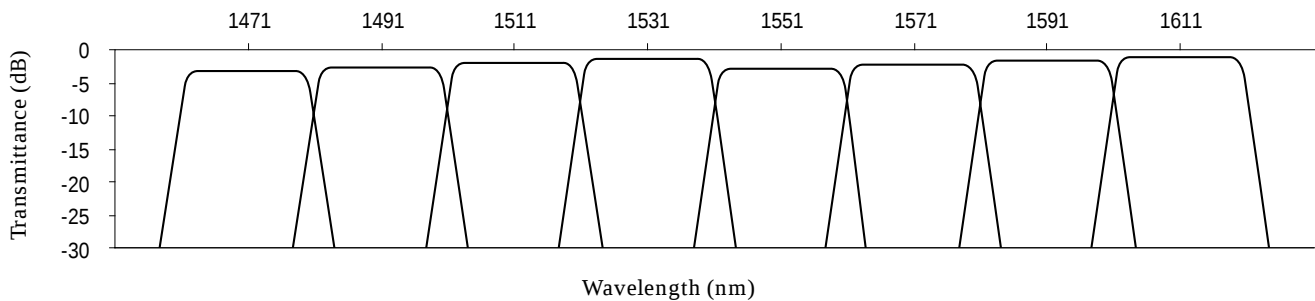
Specifications

	MUX	DEMUX
Channel center wavelengths	1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611 nm	
Channel center wavelength separation	20 nm	
Channel bandwidth at channel insertion loss	≥ 13 nm	
Insertion loss	≤ 1.9 dB	≤ 2.3 dB
Link loss with mux / demux combination	≤ 3.5 dB	
Return loss	≥ 50 dB	
Adjacent channel isolation	—	≥ 30 dB
Non-adjacent channel isolation	—	≥ 50 dB
Channel uniformity with mux / demux combination	≤ 0.8 dB	
Input power	300 mW max	
Polarization dependent loss	≤ 0.1 dB	
Thermal stability	0.005 nm/°C	
Pigtail fiber type	Corning® SMF-28™ (9/125 / 250 micron) Connectorized pigtails have 900 micron buffer.	
Pigtail fiber length	1 m ± 5 cm	
Operating temperature	- 10°C to +65°C	
Storage temperature	- 40°C to +85°C	
Dimensions	112.0 × 80.0 × 10.0 mm [4.41 × 3.15 × .39 in]	

Specifications do not include connectors. The modules are tested in accordance with applicable Telcordia™ 1209, Telcordia 1221 and NEBS standards. Please contact Tsunami to discuss specific performance requirements.



Transmittance (Demux)



Part Number

MUX OR DEMUX	8	1	CONNECTOR	B00
M = Mux D = Demux		1 = 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611	NO = No connector FP = FC / UPC SP = SC / UPC FA = FC / APC SA = SC / APC LC = LC MU = MU CU = Custom	Custom Options* B00 = Standard

* Tsunami will assign a custom number.

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