AC Photonics

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200GHz 16-Channel Dense Wavelength Division Multiplexer

ACP's Dense Wavelength Division Multiplexer (DWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging to achieve optical add and drop at the ITU wavelength. It provides ITU channel center wavelength, low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path . It can be used for wavelength add/drop in telecommunication network system. All AC Photonics' products are Telcordia qualification tested.

Key Features

- 200GHz ITU Channel Spacing
- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

Applications

- Channel Add / Drop
- DWDM Network
- Wavelength Routing
- Fiber Optical Amplifier
- CATV Fiberoptic System

Performance Specifications

Parameter		Specifications	
		Mux	**Demux**
Channel Wavelength		ITU 100 GHz Grid	
Center Wavelength Accuracy		± 0.1nm	
Minimum Channel Spacing		200GHz	
Channel Passband (@-0.5dB bandwidth)		≥ 0.5nm	
Insertion Loss		≤ 3.8dB	≤ 3.8dB
Channel Uniformity		≤ 1.5dB	≤ 1.5dB
Channel Ripple		≤ 0.4dB	≤ 0.4dB
Channel Isolation	Adjacent	N/A	≥ 30dB
	Non-adjacent	N/A	≥ 40dB
Insertion Loss Temperature Sensitivity		≤ 0.003dB/°C	
Wavelength Temperature Shifting		≤ 0.002nm/°C	
Polarization Dependent Loss		≤ 0.10dB	
Polarization Mode Dispersion		≤ 0.10ps	
Directivity		≥ 50dB	
Return Loss		≥ 45dB	
Optical Power		≤ 300mW	
Operating Temperature		0 to +70°C	
Storage Temperature		-40 to +85°C	
Package Dimensions		L150mm x W95mm x H20mm	

Mechanical Dimensions

Spectral Chart

200Ghz 16-Channel DeMux
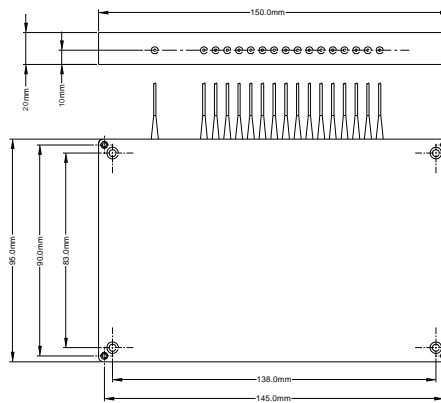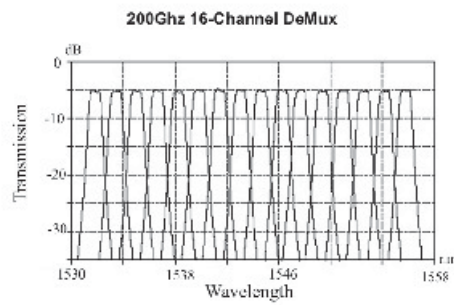
Ordering Information

DWDM								
	Channel Spacing	**Number of Channel**	**Configuration**	**1 st ITU Channel**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**	
	2 = 200GHz	16 = 16 Channel	M = Mux D = Demux	C21 = 1560.61nm C22 = 1559.79nm C23 = 1558.98nm . .	1 = Bare Fiber 2 = 900um Jacket 3 = 3mm Cable	1 = 1.0m 2 = 2.0m	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	