

## 16ch / 18ch Mini Coarse Wavelength Division Multiplexer



ACP's Mini Coarse wavelength division multiplexer (MCWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. The integration of innovative house made compact components and bend insensitive fiber provides excellent thermal stability, low insertion loss, high channel isolation, wide passband, low ripple and epoxy free optical path. The unique fiber pigtail in one side of the module enables ultra compact footprint of customer's high level integration.

All AC Photonics' products are Telcordia qualification tested.

### Key Features

- Compact Components
- Excellent Thermal Stability
- Low Ripple Filter
- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- Epoxy Free on Optical Path
- High Long Term Reliability

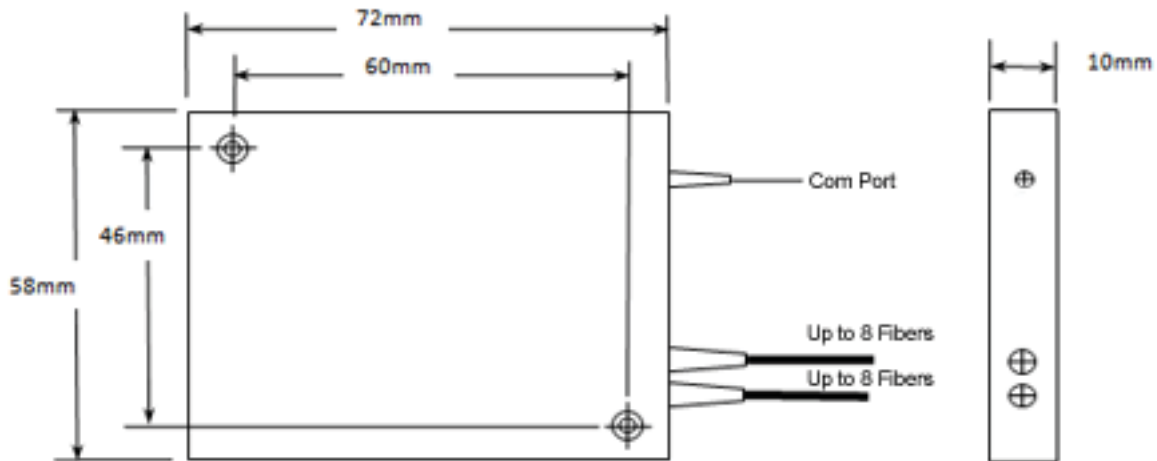
### Applications

- Triple-play
- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical Amplifier

### Performance Specifications

Parameter	Specifications	
	Mux/Demux	
Channel Number	16	18
Operating Wavelength	1310nm, 1330nm, ...,1590nm,1610nm	1270nm, 1290nm, 1310nm, 1330nm, ...,1590nm, 1610nm
Center Wavelength Accuracy	± 0.5nm	
Channel Spacing	20nm	
Channel Passband (@-0.5dB bandwidth)	≥ 13nm	
Insertion Loss	Channels	≤ 3.5dB
Channel Ripple	≤ 0.5dB	
Isolation (Demux Only)	Adjacent	≥ 30dB
	Non-adjacent	≥ 40dB
Polarization Dependent Loss	≤ 0.10dB	
Polarization Mode Dispersion	≤ 0.10ps	
Directivity (Mux Only)	≥ 50dB	
Return Loss	≥ 45dB	
Fiber Type	SMF-28eXB	
Optical Power	≤ 300mW	
Operating Temperature	0 to +70°C	
Storage Temperature	-40 to +85°C	
Package Dimensions	L72mm x W58mm x H10mm	

### Mechanical Dimensions



### Ordering Information

MCWDM	Channel Spacing	Number of Channel	Configuration	1st Channel	Com Port Pigtail Style	Channel Pigtail Style	Fiber Length	In/Out Connector
	C = CWDM Grid	16 = 16 Channel 18 = 18 Channel	M = Mux D = Demux	310 = 1310nm 330 = 1330nm . . . 570 = 1570nm	1 = Bare Fiber 2 = 900um Jacket S=Others	1 = Fiber Bundle with Bare Fiber 2 = Fiber Bundle with 900um Fan Out	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