AC Photonics

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4ch / 8ch 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 comapct 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

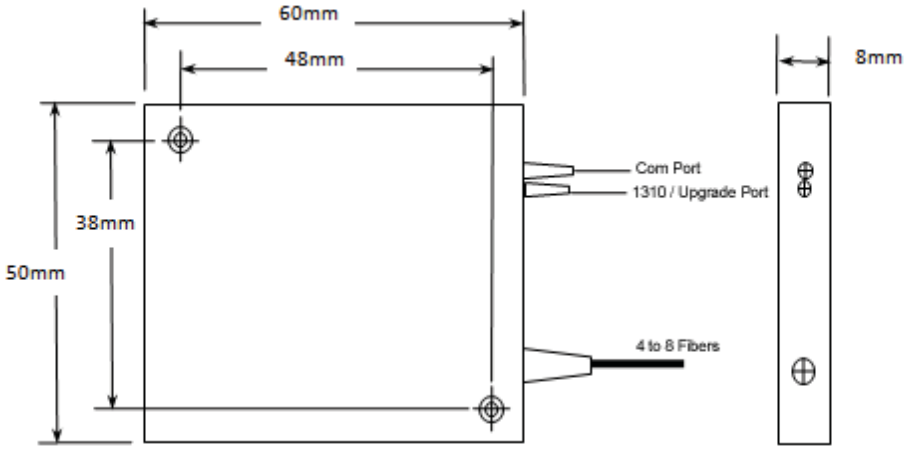
Applications

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

Performance Specifications

Parameter		Specifications			
		Mux/Demux			
Channel Number		4	4+1 (with 1310nm port)	8	8+1 (with 1310nm port)
Operating Wavelength		1471nm, 1491nm, or 1470nm, 1490nm, etc.			
Center Wavelength Accuracy		± 0.5nm			
Channel Spacing		20nm			
Channel Passband (@-0.5dB bandwidth)		≥ 13nm			
Insertion Loss	Channels	≤ 1.4dB	≤ 1.6dB	≤ 2.2dB	≤ 2.5dB
	Upgrade Port	≤ 1.2dB	≤ 1.4dB	≤ 2.0dB	≤ 2.2dB
Channel Ripple		≤ 0.5dB			
Isolation (Demux Only)	Adjacent	≥ 30dB			
	Non-adjacent	≥ 40dB			
	Upgrade Port	≥ 15dB			
Insertion Loss Temperature Sensitivity		≤ 0.003dB/°C			
Wavelength Temperature Shifting		≤ 0.002nm/°C			
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		L60mm x W50mm x H8.0mm			

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**	**Upgrade**
	C = CWDM Grid	04 = 4 Channel 08 = 8 Channel	M = Mux D = Demux	470 = 1470nm 471 = 1471nm . . . 571 = 1571nm	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	U0 = Without 1310nm or Upgrade Port U1 = With 1310nm Port U2 = With Upgrade Port U3 = With 1310nm and Upgrade Port