AC Photonics

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Compact CWDM Mux/Demux (Dual Side)

ACP's Compact Coarse wavelength division multiplexer (CCWDM) 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 carrier tray packaging with either single side output or dual side output enables ultra-compact footprint for 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
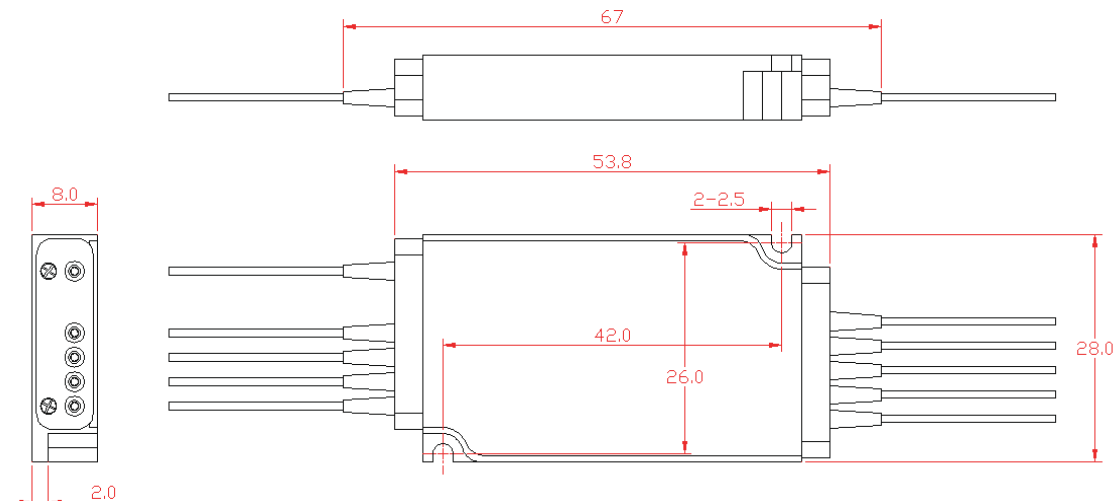- High Long Term Reliability

Applications

- Broadband Systems
- Optical Add/Drop Multiplexing
- Metro/Access Communication Networks
- Fiber Optic Instruments

Performance Specifications

Parameter		Specifications			
		Mux/Demux			
Channel Number		4	4+1 (with 1310nm port)	8	8+1 (with 1310nm port)
Operating Wavelength		1260nm to 1620nm			
Channel Spacing		20nm			
Channel Passband		CWDM ±7.0			
Insertion Loss	Channels	≤ 1.4dB	≤ 1.5dB	≤ 1.5dB	≤ 1.6dB
	1310nm Channel		≤ 1.2dB		≤ 1.2dB
	Upgrade Port	≤ 1.5dB	≤ 1.7dB	≤ 1.6dB	≤ 2.0dB
Channel Ripple		≤ 0.5dB			
Isolation (Demax Only)	Adjacent	≥ 30dB			
	Non-adjacent	≥ 40dB			
Polarization Dependent Loss		≤ 0.20dB			
Polarization Mode Dispersion		≤ 0.20ps			
Directivity (Mux Only)		≥ 55dB			
Return Loss		≥ 45dB			
Fiber Type		SMF-28eXB			
Operating Temperature		0 to +70°C			
Storage Temperature		-40 to +85°C			
Package Dimensions		L53.8mm x W28mm x H8.0mm			

Mechanical Dimensions

Ordering Information

CCWDM	D	Channel Spacing	Number of Channels	Configuration	1st 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	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