AC Photonics

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Coarse Wavelength Division Multiplexer (1x2)

ACP's Coarse Wavelength Division Multiplexer (CWDM) utilizes thin film coating technology and proprietary design of non-flux metal bonding micro optics packaging. It provides low insertion loss, high channel isolation, wide pass band, low temperature sensitivity and epoxy free optical path .

All AC Photonics' products are Telcordia qualification tested.

Key Features

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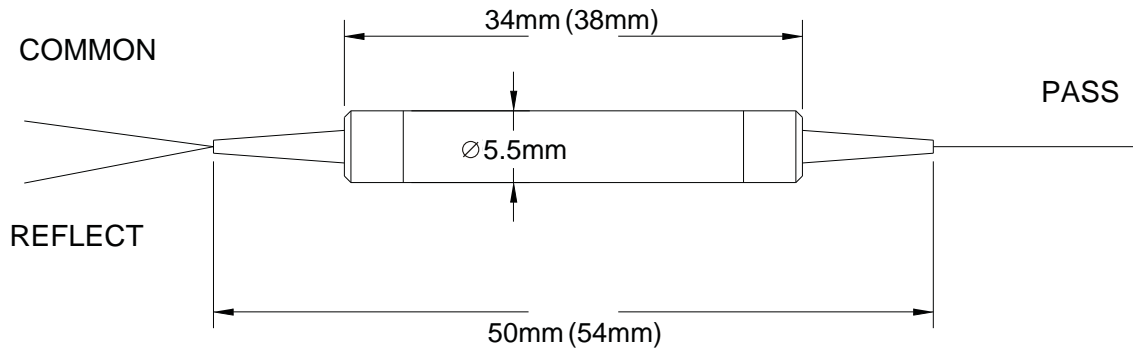- Epoxy Free Optical Path

Applications

- Line Monitoring
- WDM Network
- Telecommunication
- Cellular Application
- Fiber Optical Amplifier
- Access Network

Performance Specifications

Parameter		Specifications	
		Mux	**Demux**
Operating Wavelength		Full Band (FB): 1270nm to 1610nm;	
		Standard: 1270nm to 1350nm or 1430nm to 1610nm	
Center Wavelength		1270nm, 1290nm, …., 1610nm or 1271nm, 1291nm, ….1611nm	
Center Wavelength Accuracy		± 0.5nm	
Channel Spacing		20nm	
Channel Passband (@-0.5dB bandwidth)		$\geq$ 13nm	
Insertion Loss	Pass Channel.	$\leq$ 0.6dB	$\leq$ 0.6dB
	Reflection Channel.	$\leq$ 0.4dB	$\leq$ 0.4dB
Channel Ripple		$\leq$ 0.4dB	$\leq$ 0.4dB
Channel Isolation	Adjacent	N/A	$\geq$ 30dB
	Non-adjacent	N/A	$\geq$ 40dB
Insertion Loss Temperature Sensitivity		$\leq$ 0.003dB/°C	
Wavelength Temperature Shifting		$\leq$ 0.002nm/°C	
Polarization Dependent Loss		$\leq$ 0.10dB	
Polarization Mode Dispersion		$\leq$ 0.10ps	
Directivity		$\geq$ 50dB	
Return Loss		$\geq$ 45dB	
Optical Power		$\leq$ 300mW	
Operating Temperature		0 to +70°C	
Storage Temperature		-40 to +85°C	
Package Dimensions		Ø5.5 x L34mm (L38 for 900um)	

Mechanical Dimensions

COMMON

34mm (38mm)

∅5.5mm

PASS

REFLECT

50mm (54mm)

Ordering Information

CWDM								
	Channel Spacing	**Number of Channel**	**Configuration**	**1st Channel**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**	**FB**
	C = CWDM Grid	01 = 1 Channel	M = Mux D = Demux	510 = 1510nm 511 = 1511nm . . . 571 = 1571nm	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	FB = Full Band Leave Empty = Standard