

## 100GHz Optical Add/Drop Multiplexer (1x2)



**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

- 100GHz ITU Channel Spacing
- Low Insertion Loss
- Wide Pass Band
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path

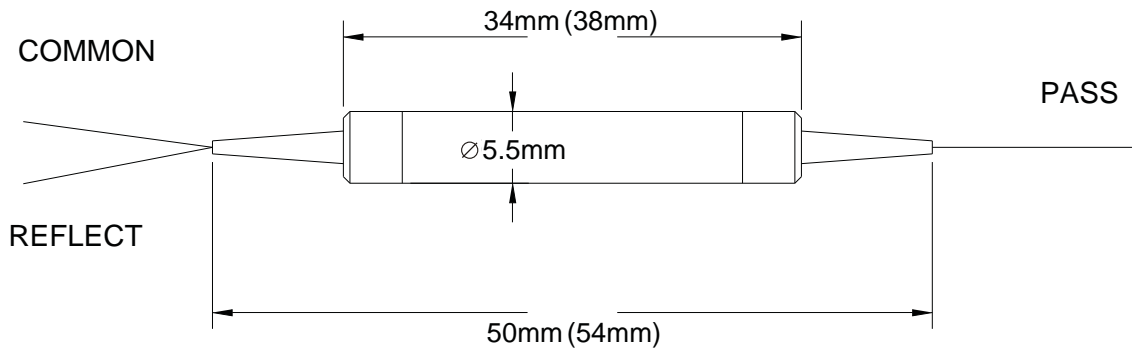
### Applications

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

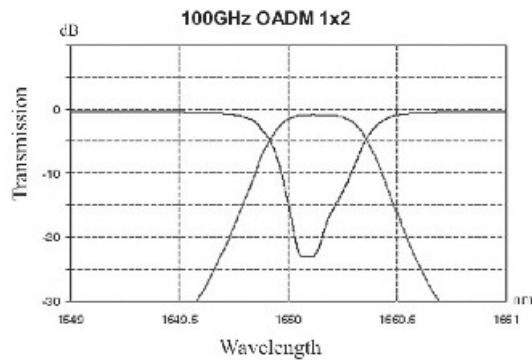
### Performance Specifications

Parameter	Specifications	
	Mux (Add)	Demux (Drop)
Channel Wavelength	1530.33 to 1560.61 (21~ 59 ITU grid)	
Center Wavelength Accuracy	± 0.05nm	
Minimum Channel Spacing	100GHz	
Channel Passband (@-0.5dB bandwidth)	≥ 0.22nm	
Insertion Loss	Add / Drop Ch.	≤ 1.0dB
	Express Ch.	≤ 0.4dB
Add / Drop Channel Ripple	≤ 0.3dB	≤ 0.3dB
Channel Isolation	Adjacent	N/A
	Non-adjacent	N/A
Express Channel Isolation	≥ 10dB	
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	Ø5.5 x L34mm (L38 for 900um)	

### Mechanical Dimensions



### Spectral Chart



### Ordering Information

DWDM	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
	Channel Spacing	Number of Channel	ITU Channel	Pigtail Style	Fiber Length	In/Out Connector
	1 = 100GHz	01 = 1 Channel	C21 = 1560.61nm C23 = 1558.98nm	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