



50GHz Optical Add/Drop Multiplexer (1x2)

AC Photonics' 50GHz 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 wavelengths. 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.



Features

- 50GHz 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	MUX (Add)	DEMUX (Drop)
Channel Wavelength (nm)	1530.33 ~ 1560.61 (21~ 59 ITU grid)	
Center Wavelength Accuracy (nm)	±0.02	
Minimum Channel Spacing (GHz)	50	
Channel Passband (@-0.5dB bandwidth) (nm)	±0.07	
Insertion Loss (dB)	Add / Drop Ch.	≤ 1.2
	Express Ch.	≤ 0.7
Add / Drop Channel Ripple (dB)	≤ 0.5	
Isolation @Add/Drop Channel (dB)	Adjacent	N/A
	Non-adjacent	N/A
Express Channel Isolation (dB)	≥ 10	
Insertion Loss Temperature Sensitivity (dB/°C)	≤0.004	
Wavelength Temperature Shifting (nm/°C)	≤0.002	
PDL (dB)	≤0.10	
Polarization Mode Dispersion (ps)	≤0.1	
Directivity (dB)	≥45	
Return Loss (dB)	≥45	
Power Handling (mW)	300	
Operating Temperature (°C)	0 ~+70	
Storage Temperature (°C)	-40 ~+85	
Dimensions (mm)	Φ5.5 x L34 (L38 for 900um Jacket)	

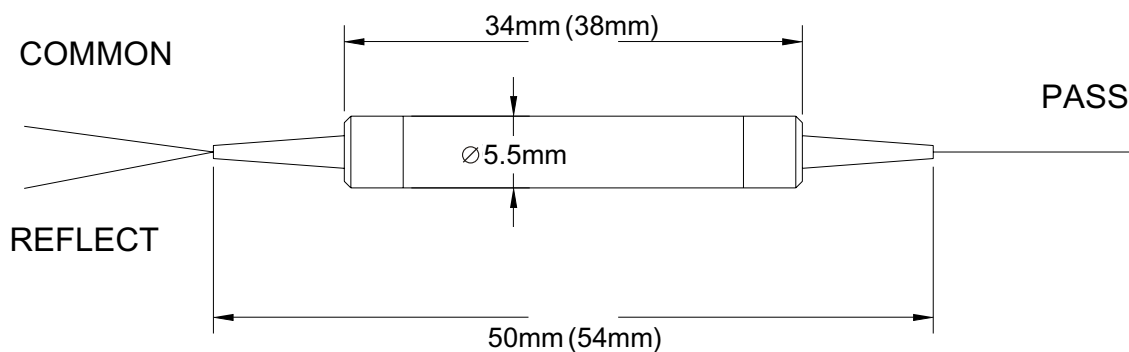
Specifications may change without notice.



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	Humber of channels	ITU Channel	Pigtail Style	Fiber Length	In/Out Connector
	5=50GHz	01=1 Channel	C21=1560.61nm H21=1560.21nm	1=Bare Fiber 2=900um Jacket	1=1 Meter 2=2 Meter	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC

Package Dimensions



Spectral Chart

