1480/1550 nm WDM/Isolator Hybrid Combination

AC Photonics' 1480/1550 WDM/Isolator Hybrid Combination utilizes thin film coating technology and proprietary designed metal bonding micro optics packaging to achieve optical signal and pump power combining and back reflection signal elimination. It provides, low insertion loss, high isolation, wide pass band, low temperature sensitivity and epoxy free optical path . It can be used for EDFA application.

Features

- Wide Operating Wavelength Range
- Low Insertion Loss
- High Channel Isolation
- Ultra Low PDL& PMD
- High Stability and Reliability
- Epoxy Free Optical Path

Applications

- EDFA
- DWDM Network
- Wavelength Routing
- Fiber Optical Instrument
- CATV Fiberoptic System

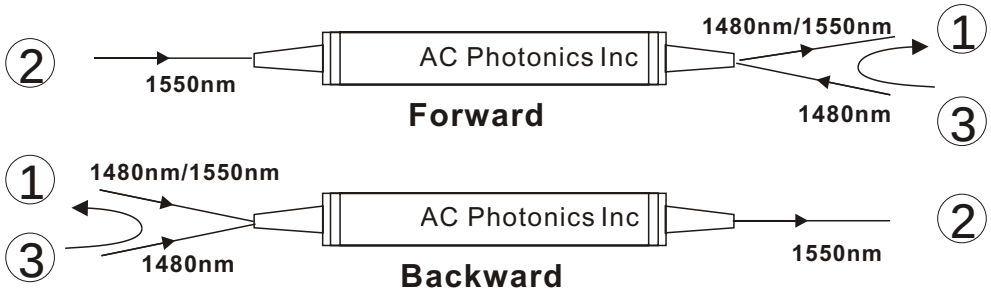
Performance Specifications

Parameter		Single Stage	Dual Stage
Signal Operation Wavelength Range (nm)		1530 ~1565	
Pump Channel Wavelength Range (nm)		1450 ~1490	
Isolation (dB) (1550±15nm, @RT, and all SOP)		≥31	≥45
Wavelength Isolation (dB) (1 to 3 @λ signal)		≥15	
Wavelength Isolation (dB) (1 to 2 or 2 to 1 @λpump)		≥25	
Insertion Loss (dB)	Signal Channel	≤0.8 (Typ. 0.6)	≤1.0 (Typ.0.8)
	Pump Channel	0.6 (Typ. 0.4)	
Wavelength Dependent Loss (dB)		≤0.4	≤0.5
Return Loss (dB)		≥55	
Insertion Loss Temperature Sensitivity (dB/°C)		≤0.003	
PDL (dB)		≤0.1 (Typ. 0.05)	
PMD (ps)(Low PMD Option)		≤0.25 (0.05)	≤0.05
Power Handling (mW)		300	
Operating Temperature (°C)		0 ~+70	
Storage Temperature (°C)		-40 ~+85	
Dimensions (mm)		Φ5.5 x L38	
Fiber Type		Corning SMF-28 fiber	

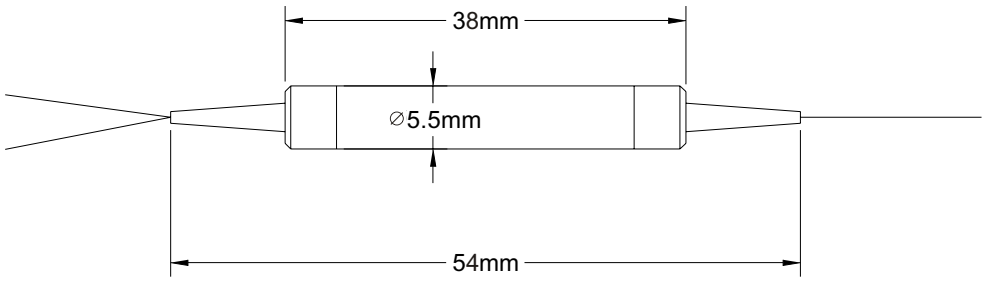
Values are referenced without connector loss. Specifications may change without notice.

Ordering Information

WDIH	□ □	□	□	□	□	□ □
	Wavelength	**Stage**	**Configuration**	**Pigtail Style**	**Fiber Length**	**In/Out Connector**
	54=1550/1480nm 64=1585/1480nm	S=Single Stage U=Dual Stage	F=Forward Pump B=Backward Pump	1=Bare Fiber 2=900um Jacket	1=1m 2=2m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC



Dimensions



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