



1480/1550 nm WDM/Isolator Hybrid Combination

DK Photonics's 1480/1550 WDM/Isolator Hybrid component 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. This product offers integrated solution to EDFA application by combining more functions into a very compact package.

The products are Telcordia GR-1221/1209-CORE qualified, and RoHS compliant

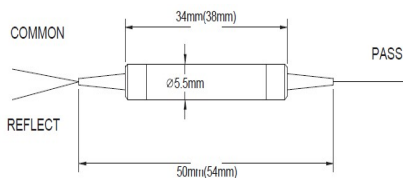


Features

- ◆ Wide Operating Wavelength Range
- ◆ Compact Size
- ◆ Low insertion loss
- ◆ Ultra Flat Wide Passband
- ◆ High channel isolation
- ◆ High stability and reliability
- ◆ Epoxy free on 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@λsignal)	15	
Wavelength Isolation (dB) (1 to 2 or 2 to 1@λpump)	25	
Insertion Loss (dB) (0~+70°C)	Signal Channel	≤0.8(Typ.0.6)
	Pump Channel	0.6(Typ.0.4)
Wavelength Dependent Loss (dB)	0.4	0.5
Crosstalk (dB)	>55	
Return Loss (Min.) (dB)	>55	
Insertion Loss Temperature Sensitivity(dB/°C)	<0.005	
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	
Package Dimension (mm)	φ5.5×L38	
Fiber Type	Corning SMF-28 fiber	

*Values are referenced without connector loss, specifications may change without notice.
**Other specifications can be made on customer request.

Order information

WDIH-①①-②-③-④④-⑤⑤-⑥⑥



①①	②	③	④④	⑤⑤	⑥⑥
Wavelength	Stage	Configuration	Fiber Diameter	Fiber Length	Connector
54:1550/1480nm 64:1585/1480nm	S:Single Stage U:Dual Stage	F:Forward Pump B:Backward Pump	25:250um 90:900um XX: Others	05:0.5m 10:1.0m 15:1.5m XX:Others	00:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC ST: ST/PC XX: Others