

1480/1550 NM WDM/ISOLATOR HYBRID COMBINATION

WDIH1514 Series

Features

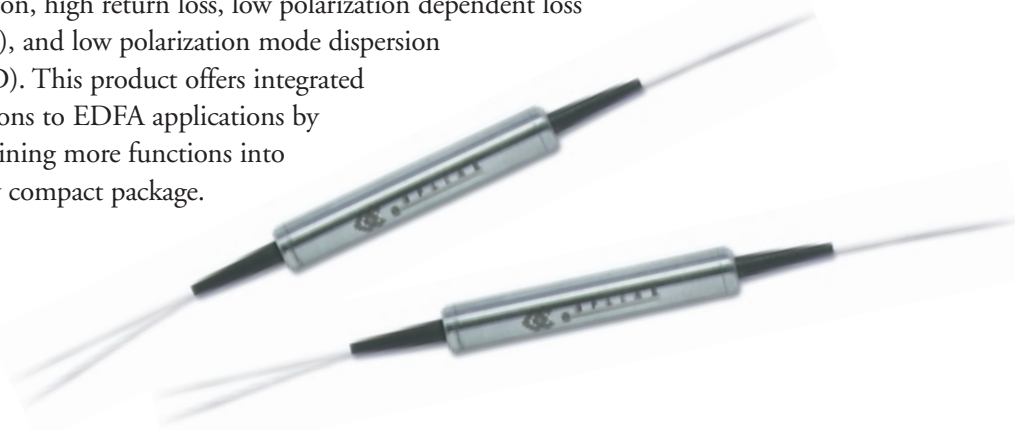
- Wide Operating Wavelength Range
- Compact Size
- High Isolation
- Ultra Low PDL & PMD
- Highly Stable & Reliable
- Epoxy-Free Optical Path

Applications

- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- WDM Systems
- Fiberoptic Instruments
- Transmitters and Fiber Lasers
- Laboratory R&D

1480/1550 NM WDM/ISOLATOR HYBRID COMBINATION

Oplink's WDIH is a combination of a 1480 / 1550 nm filter and a 1550 nm polarization insensitive optical isolator. The WDIH is a low cost model with excellent performance including low insertion loss, high isolation, high return loss, low polarization dependent loss (PDL), and low polarization mode dispersion (PMD). This product offers integrated solutions to EDFA applications by combining more functions into a very compact package.



Performance Specifications

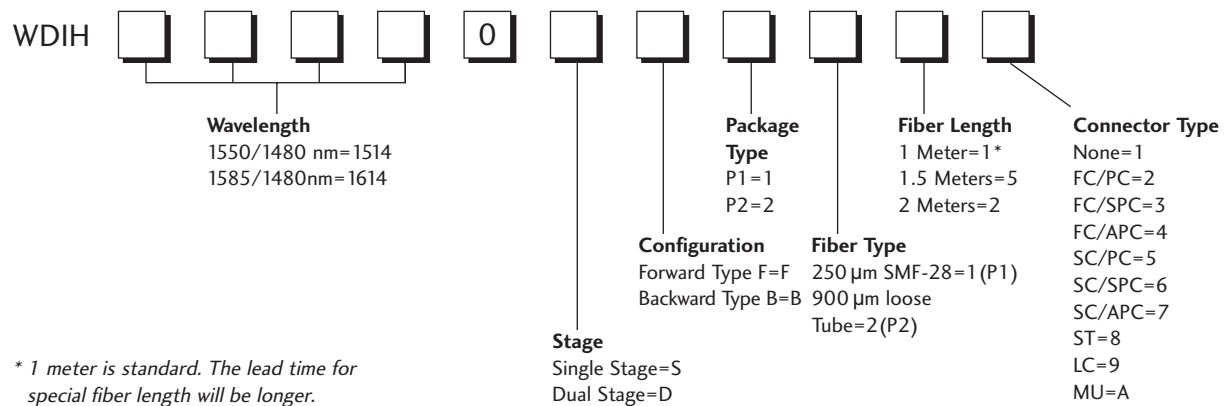
WDIH1514 Series	Single Stage	Dual Stage	Unit
Wavelength Range	C band: 1528 ~ 1564		nm
Signal Channel λ_s	L band: 1570 ~ 1605		nm
Pump channel Wavelength Range λ_p	1450 ~ 1495		nm
Channel Isolation (Min.) (over λ_s 0 ~ 70°C, all SOP)	21	36	dB
Isolation(Min.)(Pump Channel @ λ_s)	15		dB
Isolation(Min.)(Signal Channel @ λ_p)	25		dB
Insertion Loss(Max.)	Pump Channel	0.6	dB
(over wavelength range and 0 to +70°C, all SOP)	Signal Channel	0.9	dB
WDL(Max.)	0.35	0.45	dB
Return Loss(Min.)	55		dB
PDL(Max.)	0.1	0.2	dB
PMD(Max.)	0.25	0.05	ps
Directivity(Min.)	55		dB
Maximum Power Handling	500		mW
Operation Temperature	0 to +70		°C
Storage Temperature	-40 to 85		°C
Package Dimension*	P1:(ϕ)5.5 x (L)34		mm
	P2:(ϕ)5.5 x (L)40		mm

Values are referenced without connector loss

* The mechanical tolerance should be +/- 0.2 mm on all package dimensions unless otherwise custom specified.

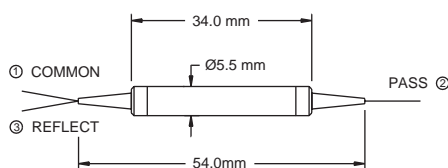
Ordering Information

Oplink custom designs and manufactures high performance fiber optic networking components and integrated optical modules. Oplink can provide a remarkable range of customized optical solutions to meet your specific design needs. By combining our technical expertise with our extensive micro-optic manufacturing and packaging capability, your volume requirements for components and customized integrated products can be met. We are happy to discuss your requirements. Please contact Oplink's OEM Design Team or Sales Representative for ordering and price information (408) 965-7270.

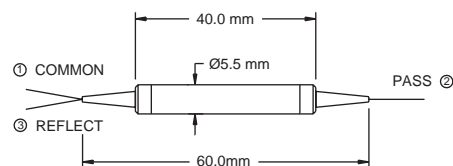


Package Dimensions:

(a) P1: SMF-28 bare fiber



(b) P2: 900 μ m loose tube



Configurations:

