

# 1480/1550nm WDM/ISOLATOR HYBRID COMBINATION

## WDIH1514 Series

### Product Description

Oplink's WDIH is a combination of a 1480/1550 nm filter and a 1550nm 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.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.



### Performance Specification

WDIH1514 Series		Single Stage	Dual Stage	Unit
Signal Operating Wavelength Range ( $\lambda_s$ )		C band : 1528 ~ 1564 or L band : 1570 ~ 1605		nm
Pump Channel Wavelength Range ( $\lambda_p$ )		1450 ~ 1495		nm
Channel Isolation (over $\lambda_s$ , 0~70°C, all SOP)		$\geq 21$	$\geq 36$	dB
Isolation	Pump Channel @ $\lambda_s$	$\geq 15$		dB
	Signal Channel @ $\lambda_p$	$\geq 25$		
Insertion Loss (Over wavelength range and 0~70°C, all SOP)	Pump Channel	$\leq 0.6$		dB
	Signal Channel	$\leq 0.9$	$\leq 1.1$	
WDL		$\leq 0.35$	$\leq 0.45$	dB
Return Loss		$\geq 55$		dB
Polarization Dependent Loss (PDL)		$\leq 0.10$	$\leq 0.20$	dB
Polarization Mode Dispersion (PMD)		$\leq 0.25$	$\leq 0.05$	ps
Directivity		$\geq 55$		dB
Operating Power Handling		$\leq 500$		mW
Operating Temperature		0 to +70		°C
Storage Temperature		-40 to +85		°C
Fiber Type		Corning SMF-28		
Package Dimension *		P1 : ( $\varnothing$ ) 5.5 x (L) 34.0		mm
		P2 : ( $\varnothing$ ) 5.5 x (L) 40.0		

Values are referenced without connector loss

\* The mechanical tolerance should be  $\pm 0.2$  mm on all package dimensions unless otherwise custom specified.

### Features

- ◆ Wide Operating Wavelength Range
- ◆ Compact Size
- ◆ High Isolation
- ◆ Ultra Low PDL & PMD
- ◆ High Stability & Reliability
- ◆ Epoxy-free Optical Path

### Applications

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



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