

1480/1550nm WDM/TAP COUPLER/ ISOLATOR HYBRID COMBINATION

WTIH1514 Series

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

1480/1550nm WDM/Tap Coupler/Isolator Hybrid Combination

Oplink's WTIH is a combination of a wavelength division multiplexer, tap coupler and an isolator in a compact package. This product has an extremely low insertion loss, and a very stable tap-coupling ratio. Fiber optic amplification is the ideal application for this product.

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 Specifications

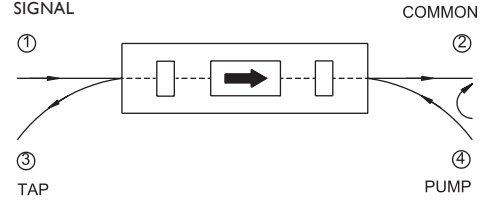
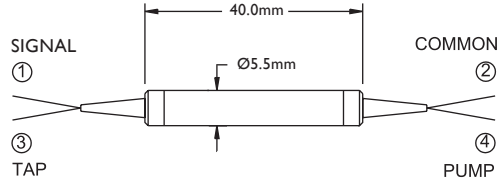
WTIH 1514 Series		Single Stage	Dual Stage	Unit	
Signal Operating Wavelength Range		C band: 1528 ~ 1564 L band: 1570 ~ 1605		nm	
Pump Channel Wavelength Range		1450 ~ 1495		nm	
Isolation (Min.) (over wavelength range 0 ~ 70°C, all SOP)		21	36	dB	
	Isolation (Min.)	(Pump Channel @ λ signal) (Signal Channel @ λ pump)	15 25	dB dB	
Insertion Loss (Max.) (over wavelength range and 0 to +70°C, all SOP)	Pump Channel		0.6		
	Signal Channel ¹⁾	1.1	1.2		
	Nominal Tap Ratio	1%	19.2 ~ 21.0		
		2%	16.2 ~ 18.0		dB
		5%	12.2 ~ 14.0		
10%		9.6 ~ 10.8			
WDL(Max.)	0.4	0.5		dB	
Return Loss(Min.)		50		dB	
PDL(Max.)		0.1		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	
Fiber Type		Corning SMF-28			
Package Dimension*		P2:(Ø)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.

¹⁾ add 0.3dB on signal channel for 10% tapping case.

Mechanical Drawing / Package Dimensions (dimension in mm)



Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

