

# 980/1550 NM WDM/TAP COUPLER/ ISOLATOR HYBRID COMBINATION

## WTIH 1598 Series

### Features

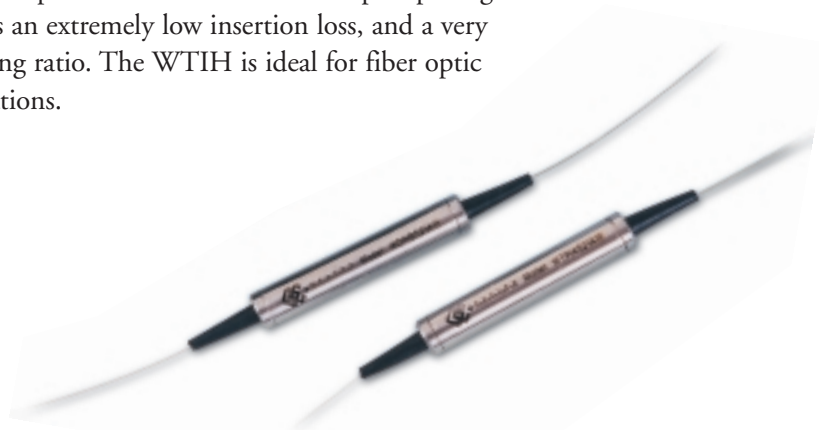
- Wide Operating Wavelength Range
- Compact Size
- High Isolation
- Ultra Low PDL & PMD
- Highly Stable & Reliable
- Epoxy-Free Optical Path

### Applications

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

### 980/1550 NM 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. The WTIH is ideal for fiber optic amplifier applications.



### Performance Specifications

WTIH1598 Series		Single Stage	Dual Stage	Unit
Signal Operating Wavelength		C band: 1528 ~ 1564		nm
		L band: 1570 ~ 1605		nm
Pump Channel Wavelength Range		965 ~ 995		nm
Isolation (Min.) (over signal wavelength range 0 ~ 70°C, all SOP)		21	36	dB
Isolation(Min.)( 2 to 4 @ λ signal)		12		dB
Isolation(Min.)( 1 to 2 @ λ pump)		30		dB
Insertion Loss		0.6		dB
(over wavelength range and 0 to +70°C,all SOP)		Pump Channel Signal Channe <sup>1)</sup> Nominal Tap Ratio %	1.5	dB
		1%	19.2 ~ 21.0	dB
		2%	16.2 ~ 18.0	dB
		5%	12.2 ~ 14.0	dB
		10%	9.6 ~ 10.8	dB
WDL(Max.)		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
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.

<sup>1)</sup> add 0.3dB on signal channel for 10% tapping case.

## Oplink Fiber Optic Product Lines

Amplifier Components

Amplifier Modules

DWDMs

Switching/Routing/

Monitoring/ Conditioning

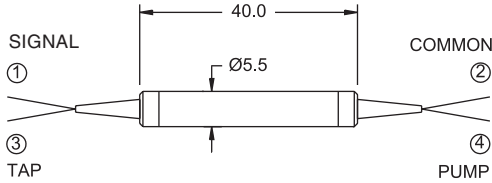
Transmission

RGB Laser Modules

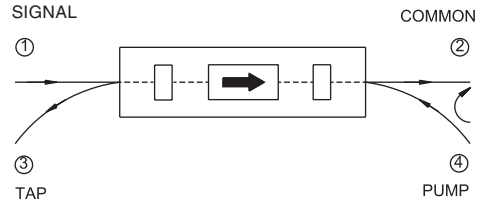


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## Package Dimensions:



## Configuration:



## 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 (510) 933-7200.

