WDM/Tap Coupler/Isolator Hybrid

WTIH-54 Series 1480/1550 nm

Features

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

Applications

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

OPLINK WTIH's is a combination of a wavelenth division multiplexer, tap coupler and isolator in a compact package. This product has an extremely low insertion loss, and a very stable tap coupling ratio. It is ideal for fiberoptic amplifier applications.

Performance Specifications

WTIH-54 Series*		Single Stage	Dual Stage
Signal Channel Wavelength Range (nm)		1530 - 1565	
Pump Channel Wavelength Range (nm)		1450 - 1493	
Insertion Loss (dB) (over all wavelength range 0 to +70°C, all SOP)	Pump Channel	≤ 0.6	
	Signal Channel	≤ 0.8	≤ 1.0
	Tap Channel	see Tap ratio table on next page	
Insertion Loss Variation (dB) (over all wavelenth range and all SOP)	Signal Channel	≤ 0.3	≤ 0.4
	Tap Channel	≤ 0.2	
Isolation (dB) (over wavelength 1535-1565 nm and at 23°C, all SOP)		≥ 31	≥ 45
Return Loss (dB)		> 55	
Polarization Dependent Loss (PDL) (dB)		≤ 0.1	
Polarization Mode Dispersion (PMD) (ps)		≤ 0.25	≤0.05
Directivity (dB)		≥ 60	
Maximum Power Handling (mW)		300	
Maximum Tensile Load (N)		5	
Operating Temperature (°C)		0 to + 70	
Storage Temperature (°C)		- 40 to + 85	
Package Dimension (mm)		P2: (ϕ)5.5 x (L)40	

Values are referenced without connector loss

* In WTIH-54 series, the signal and pump are co-propagating.

OPLINK Communications, Inc. 3475 North First St. San Jose, CA 95134-1803 Tel:(408)433-0606 Fax:(408)433-0608 Email: Sales@Oplink.com

Ordering Information

Standard Oplink WTIH are specified below with appropriate part number options. If you require devices different than these standard devices, please contact our local Oplink Distributor, Sales Representative, or Factory Customer Service for ordering and price information.

WTIH [5] [4] [ ] [ ] [ ] [ ] [ ] [ ]

Wavelength:
1480/1550 nm = 54

Stage:
Single Stage = 1
Dual Stage = 2

Tap Ratio:
1 % = 1
:
5 % = 5
etc.

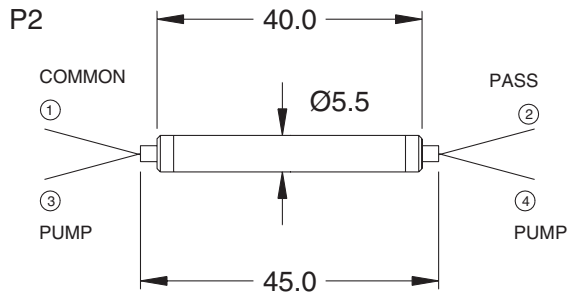
Package Type:
P2 (900μm Loose Tube) = 2
P3 (250μm SMF-28) = 3

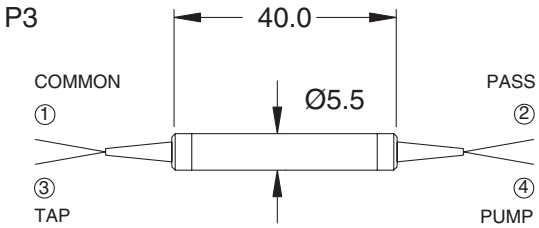
Fiber Type:
250μm SMF-28 = 1
900μm Loose Tube = 2

Fiber Length:
Special = 0
1 Meter = 1

Connector:
Special = 0
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7
ST = 8
LC = 9

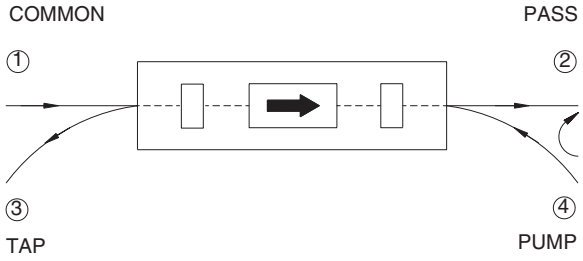
Package Dimensions:





Unit: mm

Configuration:



Coupler Tap Ratio Tolerance:

%	dB
1 ± 0.2	-19.2 ~ -21.0
2 ± 0.4	-16.2 ~ -18.0
3 ± 0.6	-14.4 ~ -16.2
4 ± 0.8	-13.2 ~ -14.9
5 ± 1.0	-12.2 ~ -14.0

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