

Tap Coupler/Isolator Hybrid

TCIH-5 Series (1550nm)



Features

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

Applications

- Fiberoptic Amplefiers
- CATV Fiberoptic Links
- Systems Monitoring
- Fiberoptic Instruments
- Transmitters and Fiber
 Lasers
- Laboratory R&D

OPLINK's TCIH is a combination of a partial reflection filter and a polarization insensitive optical isolator. It 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). Its excellent characteristics and compact package make it highly suitable for EDFA and applications.

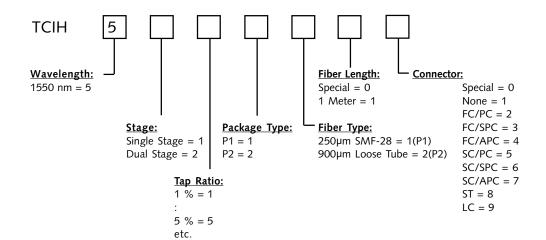
Performance Specifications

TCIH-5 Series		Single Stage	Dual Stage
Signal Channel Wavelength Range (nm)	1530 - 1565		
Tap Channel Wavelength Range(nm)		1530 - 1565	
Insertion Loss (dB) (over all wavelength range, 0 to +70°C, all SOP)	Signal Channel	≤ 0.8	≤ 1.1
	Tap Channel	See tap ratio table on next page	
Insertion Loss Variation (dB) (over all wavelenth range and all SOP)	Signal Channel	≤ 0.2	
	Tap Channel	≤ 0.2	
Isolation (dB) (over wavelength 1535-1565 nm and at 23°C, al	l sop)	≥ 31	≥ 45
Return Loss (dB)		≥55	
Polarization Dependent Loss (PDL) (dB)		<u>≤</u> 0.1	
Polarization Mode Dispersion (PMD) (ps)		≤ 0.25	≤ .05
Directivity (dB)		≥ 55	
Maximum Power Handling (mW)		300	
Maximum Tensile Load (N)		5	
Operating Temperature (°C)		0 to + 70)
Storage Temperature (°C)		- 40 to + 3	35
Package Dimension (mm)	P1: (φ)5.5 x (L)34 P2: (φ)5.5 x (L)40		

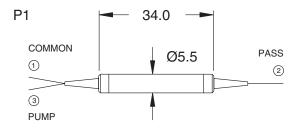
Values are referenced without connector loss

Ordering Information

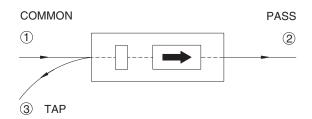
Standard Oplink TCIH are specified below with appropriate part number options. If you require devices different than these standard devices, please contact our local Oplink Distributor, Sales Representative, or Factory Customer Service for ordering and price information.

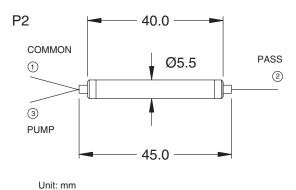


Package Dimensions:



Configurations:





Coupler Tap Ratio Tolerance:

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



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