GREEN 1550(1585)NM TAP COUPLER/ ISOLATOR HYBRID COMBINATION

TCIHG Series

Product Description

Oplink's Tap Coupler/Isolator Hybrid Combination (TCIH) is based on patented athermal platform for optical device. This product is a combination of a partial reflection filter and a polarization insensitive optical isolator that features ultra low insertion loss, super thermal stability, and unparallel reliability. The technology is a lead-free packaging platform and no epoxy in the optical path.



Performance Specification

TCIHG Series Specifications		Single Stage	Dual Stage	Unit
Operating Wavelength Range		C-band: 1528 ~ 1564 L-band: 1570 ~ 1605		nm
Insertion Loss [1]	Standard Port	< 0.8	< 1.0	dB
	Tap Port	1% Tap Ratio: 19.2~21.0 2% Tap Ratio: 16.2~18.0 5% Tap Ratio: 12.2~14.0 10% Tap Ratio: 9.6~10.8		dB
Wavelength Dependent Loss		< 0.3	< 0.4	dB
Reverse Direction Isolation (over operating wavelength range, 0~70°C, all SOP)		> 21	> 38	ps
Polarization Dependent Loss		< 0.1		dB
Polarization Mode Dispersion		< 0.25	< 0.05	dB
Directivity		> 55		dB
Return Loss		> 50		dB
Maximum Power Handling		< 500		mW
Fiber Type		Corning SMF-28		
Operating Temperature		0 to +70		°C
Storage Temperature		-40 to +85		°C
Package Dimensions (3)		P1: (ø) 5.5 x (L) 34.0 P2: (ø) 5.5 x (L) 40.0		mm

Note:

[1] The maximum IL is under all states of polarization and within the full operating temperature and wavelength ranges specified.

Add 0.3dB on signal port IL for 10% tapping case.

[2] All the parameters are excluding connectors.

[3] The mechanical tolerance should be +/-0.2mm on all package dimensions unless otherwise custom specified.

Features

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

Applications

- Fiberoptic Amplifiers
- ♦ CATV Fiberoptic Links
- System Monitoring
- ♦ Fiberoptic Instruments
- Transmitters and Fiber Lasers
- ♦ Laboratory R&D

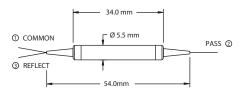


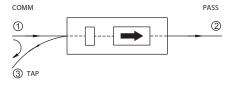


TCIHG SERIES

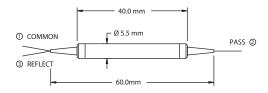
Mechanical Drawing / Package Dimensions (dimension in mm)

P1: SMF-28 250µm bare fiber

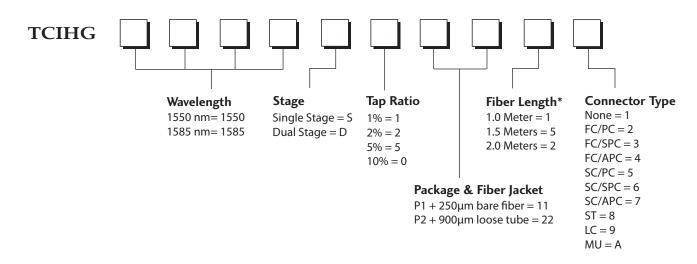




P2: 900µm loose tube



Ordering Information



^{*} The tolerance of fiber length is +/-0.1m. 1 meter is standard. The lead-time for special fiber length will be longer.

Mouser Electronics

Authorized Distributor

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Molex:

TCIHG1550S11111