Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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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

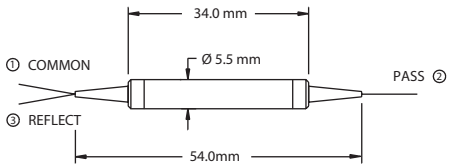
Applications

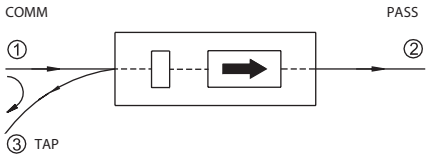
- Fiberoptic Amplifiers
- CATV Fiberoptic Links
- System Monitoring
- Fiberoptic Instruments
- Transmitters and Fiber Lasers
- Laboratory R&D

OPLINK
your DESIGN & OMS partner

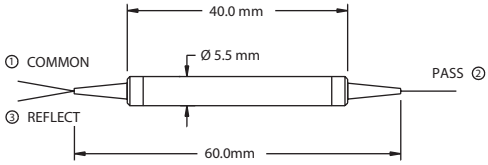
Mechanical Drawing / Package Dimensions (dimension in mm)

P1: SMF-28 250μm bare fiber





P2: 900μm loose tube



Ordering Information

TCIHG □ □ □ □ □ □ □ □ □ □

Wavelength
1550 nm= 1550
1585 nm= 1585

Stage
Single Stage = S
Dual Stage = D

Tap Ratio
1% = 1
2% = 2
5% = 5
10% = 0

Package & Fiber Jacket
P1 + 250μm bare fiber = 11
P2 + 900μm loose tube = 22

Fiber Length*
1.0 Meter = 1
1.5 Meters = 5
2.0 Meters = 2

Connector Type
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7
ST = 8
LC = 9
MU = A

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

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