Mini 980/1550nm WDM/Isolator Hybrid

Mini WDIH59 Series

Product Description

Oplink's WDIH is a combination of a 980/1550(1585)nm filter and a C-band 1550nm (or L-band 1585nm) polarization insensitive optical isolator. The Mini WDIH is a low cost model with excellent performance including low insertion loss, high isolation, high return loss, and low polarization dependent loss (PDL). This product offers integrated solutions to EDFA applications by combining more functions into a very compact package. The product package dimension is about 3.0×30mm.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.

Performance Specification

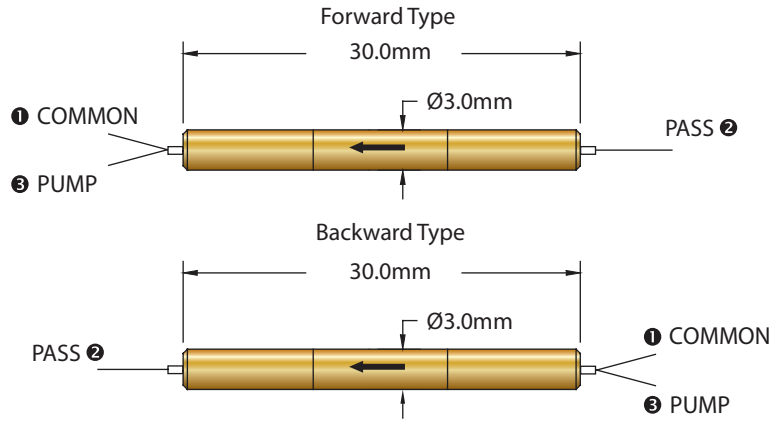| Mini WDIH59 Series		Min	Typical	Max	Unit
Operating Wavelength Range (λs)			1528 ~ 1564 or 1570 ~ 1604		nm
Pump Channel Wavelength Range (λp)			965 ~ 995		nm
Channel Isolation (over λs, 0~70°C, all SOP)	Single Stage	21			dB
	Dual Stage	36			
Isolation	Pump Channel @ λs	15			dB
	Signal Channel @ λp	25			
Insertion Loss (over wavelength range and 0~70°C, all SOP)	Pump Channel			0.5	dB
	Signal Channel — Single Stage			0.9	
	Signal Channel — Dual Stage			1.1	
WDL				0.2	dB
Return Loss			≥ 50		dB
Polarization Dependent Loss (PDL)	Single Stage			0.10	dB
	Dual Stage			0.15	
Polarization Mode Dispersion (PMD)	Single Stage			0.25	ps
	Dual Stage			0.05	
Directivity			≥ 50		dB
Operting Power Handling			≤ 500		mW
Operating Temperature			0 to +70		°C
Storage Temperature			-40 to +85		°C
Fiber Type	COM & Pump Ports		PureMode HI1060 FLEX		
	Pass Port		SMF-28, 250µm Bare Fiber		
Package Dimension			(Φ) 3.0 x (L) 30.0		mm

Features

◈ Wide Operating Wavelength Range

◈ Compact Size

◈ High Isolation

◈ Ultra Low PDL & PMD

◈ Highly Stable & Reliable

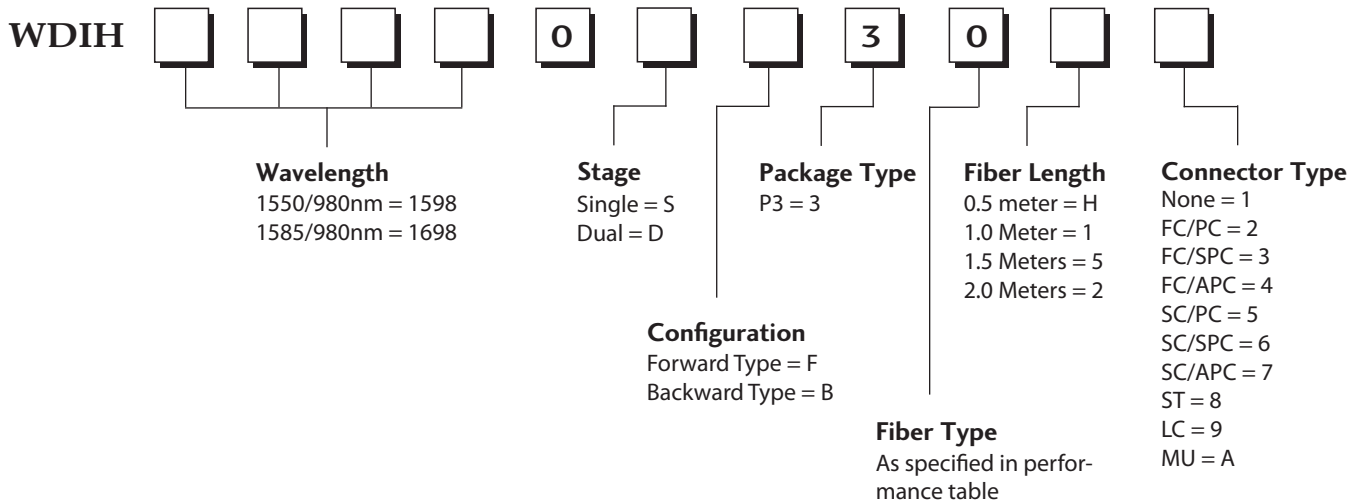◈ Small Package Dimension

◈ Epoxy-free Optical Path

Applications

◈ EDFA

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Mechanical Drawing / Package Dimensions   (dimension in mm)

Forward Type
30.0mm
Ø3.0mm
❶ COMMON
PASS ❷
❸ PUMP

Backward Type
30.0mm
Ø3.0mm
PASS ❷
❶ COMMON
❸ PUMP

Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

WDIH ☐ ☐ ☐ ☐ 0 ☐ ☐ 3 0 ☐ ☐

Wavelength
1550/980nm = 1598
1585/980nm = 1698

Stage
Single = S
Dual = D

Package Type
P3 = 3

Fiber Length
0.5 meter = H
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

Configuration
Forward Type = F
Backward Type = B

Fiber Type
As specified in performance table

Product Lines: ❖ Mux/Demux ❖ Switching/Routing ❖ Coupling/Splitting ❖ Monitoring/Conditioning ❖ Amplification ❖ Transmission ❖ Interconnect ❖ RGB Laser Modules

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