

# 980nm/1550nm WDM/Isolator Hybrid

DATASHEET

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Agiltron's 980/1550 nm WDM/Isolator Hybrid is a combination of a filter and a 1550 nm 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). This product offers an integrated solution to EDFA application by combining more functions into a very compact package. All Agiltron's products are Telcordia qualification tested.

## Features

- Wide Operating Wavelength Range
- Low Insertion Loss
- High Channel Isolation
- Ultra Low PDL and PMD
- High Stability and Reliability
- Epoxy Free Optical Path

## Applications

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

## Specifications

Parameter	Specifications		Unit
	Single Stage	Dual Stage	
Operation Wavelength Range	C Band	1528 ~ 1564	nm
	L Band	1570 ~ 1605	
Pump Channel Wavelength Range	965 ~ 1000		nm
Insertion Loss (Over Wavelength and temperature range, all SOP)	Pump Ch.	≤ 0.6	dB
	Signal Ch.	≤ 1.1   ≤ 1.2	
Isolation (@ 23°C, all SOP)	≥ 31	≥ 45	dB
Wavelength Isolation (Port 1 to 3 @ λ. Signal)	≥ 12		dB
Wavelength Isolation (Port 1 to 2 @ λ. Pump)	≥ 30		dB
Temperature Dependent Loss	≤ 0.25	≤ 0.3	dB
Wavelength Dependent Loss	≤ 0.4	≤ 0.5	dB
Polarization Dependent Loss	≤ 0.1		dB
PMD (Low PMD version)	≤ 0.25 (0.05)	≤ 0.05	ps
Return Loss	≥ 55		dB
Directivity	≥ 55		dB
Operating Temperature	0 ~ +70		°C
Storage Temperature	-40 ~ +85		°C
Optical Power Handling	≤ 400		mW
Package Dimensions	Ø5.5 x L38		mm

**Note:** The specifications provided are for general applications with a cost-effective approach. If you need to narrow or expand the tolerance, coverage, limit, or qualifications, please [click this link](#):

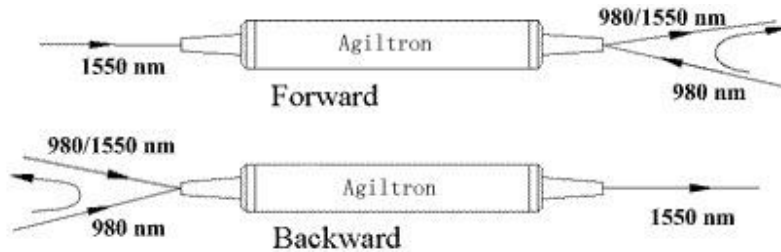
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### Optical Configuration



### Ordering Information (Part Number)

Prefix	Wavelength	Stage	Type	Fiber Type	Fiber Cover	Fiber Length	Connector <sup>[2]</sup>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>HWIC-</b>	980/C Band = 9C 980/L Band = 9L T1550/R980 = 9R	Single = S Dual = D	Backward = 1 Forward = 2	Hi1060/SMF28e <sup>[1]</sup> = H1 Special = 0	Bare fiber = 1 900 μm tube = 3 250 μm = 4 Special = 0	0.25m = 1 0.5m = 2 1.0m = 3 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 LC/UPC = U LC/APC = A Special = 0

[1]. HI1060 at pump port with SMF28e at signal port

[2]. The connector cannot be installed directly onto bare fiber, as it is prone to damage during shipping. However, the connector can be assembled on bare fiber if a 3 cm protective loose tube is added for reinforcement. The customer can remove this protective tube after testing. The optical power handling of a standard connector is less than 0.5 W for SM28 fiber and decreases further with smaller core fibers.

\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.