

# 980/1550nm WDM/Isolator Hybrid

(Patents Pending)

## Product Description

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

## Performance Specifications

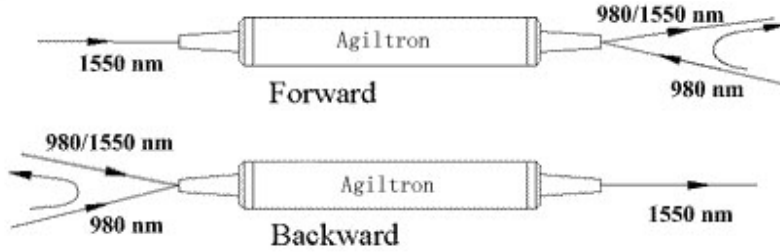
HWIC Parameter		Specification		Unit
		Single Stage	Dual Stage	
Operation Wavelength Range	C Band	1528 - 1564		nm
	L Band	1570 - 1605		
Pump Channel Wavelength Range		965 - 1000		nm
Insertion Loss (Over Wavelength and temperature range, all SOP)	Pump Ch.	≤ 0.6		dB
	Signal Ch.	≤ 1.1	≤ 1.2	
Isolation (@ 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	≤ 0.2	dB
PMD (Low PMD version)		≤ 0.25 (0.05)	≤ 0.05	ps
Return Loss		≥ 55		dB
Directivity		≥ 55		dB
Operating Temperature		0 - +70		oC
Storage Temperature		-40 - +85		oC
Optical Power Handling		≤ 400		mW
Package Dimensions		Ø5.5 x L38		mm

## Applications

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

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## Optical Configuration



## Ordering Information

HWIC-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	H 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Wavelength	Stage	Grade	Fiber Type		Fiber Length	Connector	
	980/C Band = 9C 980/L Band = 9L	Single = S Dual = D	Standard = 1 Special = 0	HI1060 at pump port with SMF28 at signal port = H1 Special=0	Bare fiber = 1 900um Loose tube = 3 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 = 7 Special = 0	