

1590 980nm High Power SM Isolator WDM Hybrid

1590 980nm High Power SM Isolator WDM Hybrid is a fiber passive component which integrated with the function of WDM and fiber isolator, it can be used for combine signal wavelength and pump wavelength with a high isolation to avoid the backward wavelength, It's widely used in Fiber Laser and Fiber Amplifier application, higher power type is available upon request.

Application:

Fiber Laser
Fiber Amplifier
Testing System
Lab And Research

Features:

Compact Package
High Isolation
Low Insertion Loss
High Reliability



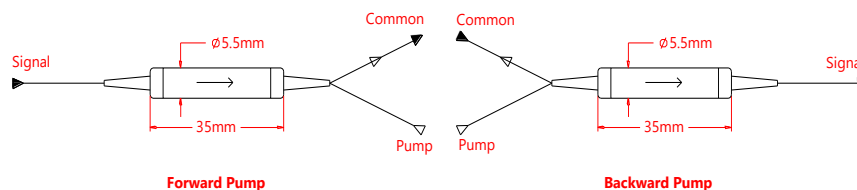
Specification:

Parameter	Symbol	Value		Unit
Signal Wavelength	λ	1590 (1530-1605)		nm
Pump Wavelength	λ	980 (970-990)		nm
Isolator Stage		Single Stage	Dual Stage	-
Typ. Peak Isolation (Signal Reflection)	Iso	40	55	dB
Min. Isolation (Signal Reflection)	Iso	30	45	dB
Max. insertion Loss for Signal	IL	0.9	1.0	dB
Min. Isolation (Common → Signal @Pump)	Iso	30		dB
Min. Isolation (Pump → Common @Signal)	Iso	15		dB
Max. insertion Loss for Pump	IL	0.6		dB
Max. Polarization Dependent Loss	PDL	0.1	0.15	dB
Max. Polarization Mode Dispersion	PMD	0.25	0.1	ps
Max. Wavelength Dependent Loss	WDL	0.3		dB
Min. Return Loss	RL	50		dB
Min. Directivity		50		dB
Max. Optical Power (CW)	P	0.5, 1, 3, 5, 10, 20 or customized		W
Max. Peak Power	P	5, 10 or customized		KW
Max. Tensile Load		5		N
Fiber Type		SMF-28e for Common & Signal SMF-28e or HI 1060 for Pump		-
Operating Temperature	T	-5~70		°C
Storage Temperature	T	-40~85		°C
Package Dimension		Φ5.5×L35		mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23℃.

For devices with connectors, IL will be 0.3dB higher, RL will be 5dB lower. Connectors only 1W CW guarantee.

Drawing:



Ordering Information (Part Number):

HSIW- WWW - P - S - HH - FF - J - LL - CC							
WWW	P	S	HH	FF	J	LL	CC
Wavelength (Signal/Pump)	Pump Type	Stage	Handling Power	Fiber Type on Pump Port	Fiber Jacket	Fiber Length	Connector
5598 - 1550/980nm	F - Forward	S - Single Stage	Z5 - 0.5W	H1 - HI 1060	B - 250um Bare	05 - 0.5m	NE - None
5698 - 1560/980nm	B - Backward	D - Dual Stage	01 - 1W	S2 - SMF-28e	Fiber	10 - 1.0m	FA - FC/APC
5798 - 1570/980nm			03 - 3W	SS - Specify	9 - 900um Loose	15 - 1.5m	FU - FC/UPC
5898 - 1580/980nm			05 - 5W		Tube	20 - 2.0m	SS - Specify
5998 - 1590/980nm			10 - 10W				
SSSS - Specify			SS - Specify				