

1590 1480nm High Power PM Isolator WDM Hybrid

1590 1480nm High Power PM 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



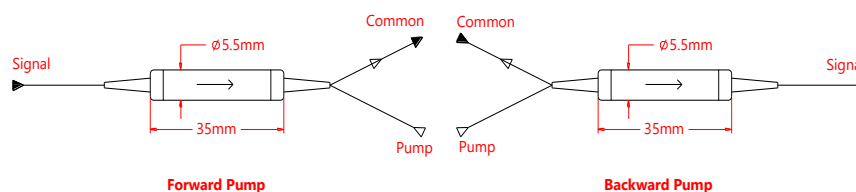
Specification:

Parameter	Symbol	Value		Unit
Signal Wavelength	λ	1590 (1530-1605)		nm
Pump Wavelength	λ	1480 (1460-1490)		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
Min. Extinction Ratio	for Fast Axis Blocked	ER	22	dB
	for Both Axes Working	ER	20	dB
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		PM 1550 for Common & Signal PM 1550 or SMF-28e 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°C.

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):

HPIW-WWWW-P-S-A-HH-FF-J-LL-CC								
WWW	P	S	A	HH	FF	J	LL	CC
Wavelength (Signal/Pump)	Pump Type	Stage	Working Axis	Handling Power	Fiber Type on Pump Port	Fiber Jacket	Fiber Length	Connector
5548 - 1550/1480nm	F - Forward	S - Single Stage	F - Fast Axis Blocked	Z5 - 0.5W	S2 - SMF-28e	B - 250um Bare Fiber	05 - 0.5m	NE - None
5648 - 1560/1480nm	B - Backward	D - Dual Stage	B - Both Axes Working	01 - 1W	P5 - PM 1550	9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
5748 - 1570/1480nm				03 - 3W	SS - Specify		15 - 1.5m	FU - FC/UPC
5848 - 1580/1480nm				05 - 5W			20 - 2.0m	SS - Specify
5948 - 1590/1480nm				10 - 10W				
SSSS - Specify				SS - Specify				