

High Power Double Clad 1950nm Polarization Insensitive Optical Isolator

High Power Double Clad 1950nm Polarization Insensitive Optical Isolator is a fiber passive component built with double cladding singlemode fiber, it allows light signal to be delivered in one forward direction and avoid the back reflection light, it's widely used in amplifier system, fiber optic sensor system to protect the light source and lower down the optical signal noise. The optical power can be up to 10W CW upon request, if need pulse type please contact us to confirm.

Application:

Fiber Optic Amplifier
Fiber Optic Sensor
Fiber Amplifier
Fiber Laser

Features:

High Power
High Isolation
Low Insertion Loss
High Reliability



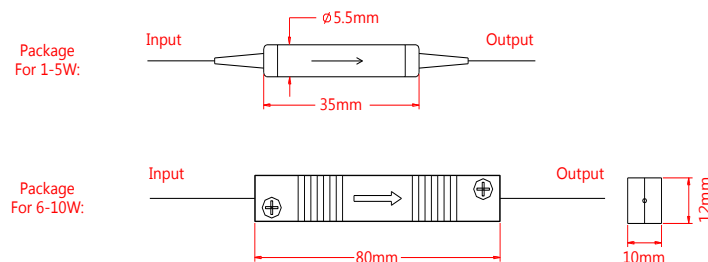
Specification:

Parameter	Symbol	Value	Unit
Center Wavelength	λ	1950	nm
Bandwidth	BW	± 50	nm
Stage		Single Stage	Dual Stage
Typ. Insertion Loss	IL	1.0	1.2
Max. Insertion Loss	IL	1.2	1.5
Typ. Peak Isolation	Iso	30	42
Min. Isolation	Iso	25	35
Max. Polarization Dependent Loss	PDL	0.2	dB
Max. Polarization Mode Dispersion	PMD	0.2	ps
Min. Return Loss	RL	50	dB
Max. Optical Power (CW)	P	1, 3, 5, 10 or specify	W
Max. Peak Power	P	5, 10 or specify	KW
Max. Tensile Load		5	N
Fiber Type		10/130 0.15/0.46NA double cladding fiber	-
Operating Temperature	T	-5~70	$^{\circ}\text{C}$
Storage Temperature	T	-40~85	$^{\circ}\text{C}$
Package Dimension		$\Phi 5.5 \times L35$ or $L80 \times W12 \times H10$	mm

Notice: Above specifications are tested at center wavelength without connector in room temperature @23 $^{\circ}\text{C}$.

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

Drawing:



Ordering Information (Part Number):

HP1950-WWW-S-HH-FFF-J-LL-CC

WWW	S	HH	FFF	J	LL	CC
Wavelength	Stage	Handling Power	Fiber Type	Fiber Jacket	Fiber Length	Connector
1940 - 1940nm	S - Single Stage	01 - 1W	D10 - 10/130 Double Cladding Fiber SSS - Specify	B - 250um Bare Fiber	05 - 0.5m	NE - None
1950 - 1950nm	D - Dual Stage	03 - 3W		9 - 900um Loose Tube	10 - 1.0m	FA - FC/APC
2000 - 2000nm		05 - 5W			15 - 1.5m	FU - FC/UPC
2050 - 2050nm		10 - 10W			20 - 2.0m	SA - SC/APC
		SS - Specify			SS - Specify	SU - SU/APC
						LA - LC/APC
						LU - LC/UPC
						SS - Specify