

1310 / 1480 / 1550 nm Polarization Insensitive High Power Isolator

Model #: HPISI, HPIDI

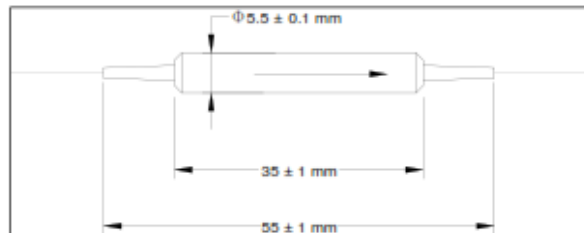
Description: 1310, 1480 or 1550 nm Polarization Insensitive High Power Isolator

Application: Fiber amplifier, fiber laser.

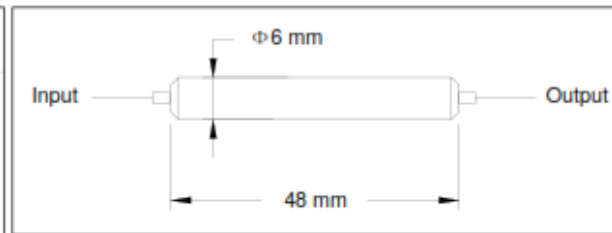
Specifications:

Parameter	Unit	Specifications			
		Single Stage		Dual Stage	
		P-Grade	A-Grade	P-Grade	A-Grade
Central Wavelength	nm	1310, 1480 or 1550			
Typ. Peak Isolation	dB	42	40	58	55
Min. Isolation ($\lambda c \pm 10$ nm, 23°C, all polarization status)	dB	30	29	46	45
Typ. Insertion Loss (λc , 23°C, all polarization status)	dB	0.35	0.5	0.4	0.6
Max. Insertion Loss ($\lambda c \pm 20$ nm, all temperature, all polarization status)	dB	0.5	0.7	0.6	0.9
Min. Return Loss (input / output)	dB	60/55			
Max. Polarization Dependent Loss (23 °C)	dB	0.10	0.15	0.10	0.15
Max. Polarization Mode Dispersion	ps	0.20	0.25	0.05	0.07
Max. Optical Power (CW)	W	5 or 10			
Max. Peak Power for ns Pulses	kW	10			
Max. Tensile Load	N	5			
Operating Temperature	°C	-5 to +70			
Storage Temperature	°C	-40 to + 85			
Dimension	mm	5.5 (D) x 35 (L)			
Fiber Type		SMF-28 fiber			

Note: each connector may contribute extra 0.3 dB IL, 5 dB lower RL. Optical power will be 1.0 W only if connector is added.



Type A (≤ 5 W)



Type B (6 W -10 W)

Ordering Information:

Single Stage: HPISI-AA-BB-C-D-E-F-G
Dual Stage: HPIDI-AA-BB-C-D-E-F-G

AA: wavelength	BB: power handling	C: grade	D: PMD	E: fiber jacket	F: fiber length	G: power type
31 - 1310 nm	05: 5 W	P – P-grade	1 – < 0.05 ps	B - 250 μ m Panda fiber	1 – 1.0 m	P - Pulsed
48 - 1480	10: 10 W	A – A-grade	2 – Specified above	L - 900 μ m loss tube	X - other	C - CW
55 - 1550	XX: other			X - other		
XX - Other						