

Polarization Sensitive Isolator

Model #: PSSSI and PSDSI

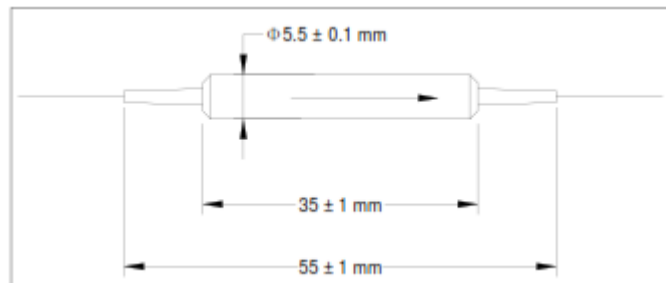
Description: 1310, 1480 or 1550 nm polarization sensitive isolator

Application: Fiber amplifier, fiber laser.

Specifications:

Parameter	Unit	Specifications			
		Single Stage		Dual Stage	
		A Grade	P-Grade	A-Grade	P-Grade
Central Wavelength	nm	1310, 1480 or 1550			
Typ. Insertion Loss (λ_c , 23 °C, at optimized polarization states)	dB	0.5	0.35	0.6	0.4
Max. Insertion Loss ($\lambda_c \pm 20$ nm, -5 °C to +70 °C, at optimized polarization states)	dB	0.7	0.5	0.9	0.6
Typ. Peak Isolation	dB	40	42	55	58
Min. Isolation ($\lambda_c \pm 10$ nm, 23 °C)	dB	29	30	45	46
Min. Polarization Dependent Loss (23 °C)	dB	18	20	18	20
Min. Return Loss (Input / Output)	dB	60/55			
Max. Optical Power (CW)	mW	300			
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.



Order Information:

Single Stage: **PSSSI-AA-B-C-D-E**

Dual Stage: **PSDSI-AA-B-C-D-E**

A: wavelength	B: grade	C: connector type	D: fiber jacket	E: fiber length
31 – 1310 nm	P – P-grade	1 - FC/UPC	B - 250 μ m bare fiber	1 – 1.0 m
48 – 1480 nm	A – A-grade	2 - FC/APC	L - 900 μ m loss tube	X - other
55 – 1550 nm	XX - other	3 - SC/UPC	X - other	
XX - other		4 - SC/APC		
		N - none		
		X - other		