

1310 / 1550 / 1590 nm 2 in 1 Polarization Insensitive Isolator

Model #: PSTI, PDTI

Description: 1550 nm 2 in 1 Polarization Insensitive 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, 1550 or 1590			
Typ. Peak Isolation	dB	35	33	52	50
Min. Isolation ($\lambda_c \pm 10$ nm, 23°C, all polarization status)	dB	25	23	40	38
Typ. Insertion Loss (λ_c , 23°C, all polarization status)	dB	0.5	0.6	0.7	0.9
Max. Insertion Loss ($\lambda_c \pm 20$ nm, all temperature, all polarization status)	dB	0.6	0.7	0.9	1.0
Min. Return Loss (input / output)	dB	50/55			
Max. Polarization Dependent Loss (23 °C)	dB	0.05	0.1	0.1	0.2
Max. Polarization Mode Dispersion	ps	0.20	0.25	0.07	0.1
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 32 (L)			
Fiber Type		SMF-28 fiber			

Note: each connector may contribute extra 0.3 dB IL, 5 dB lower RL.



Ordering Information:

Single Stage: PSTI-AA-B-C-D-E-F

Dual Stage: PSDI-AA-B-C-D-E-F

AA: wavelength	B: Grade	C: PMD	D: connector type	E: fiber jacket	F: fiber length
31 - 1310 nm	P – P-grade	1 – < 0.05 ps	1 - FC/UPC	B - 250 μ m Panda fiber	1 – 1.0 m
55 – 1550 nm	A – A-grade	2 – Specified above	2 - FC/APC	L - 900 μ m loss tube	X - other
59 – 1590 nm			3 - SC/UPC	T - 900 μ m tight buffer	
XX - Other			4 - SC/APC		
			N - none		
			X - other		