

Polarization Insensitive Isolator (DL-PQSI-T-UU-V-W-X-Y-Z)

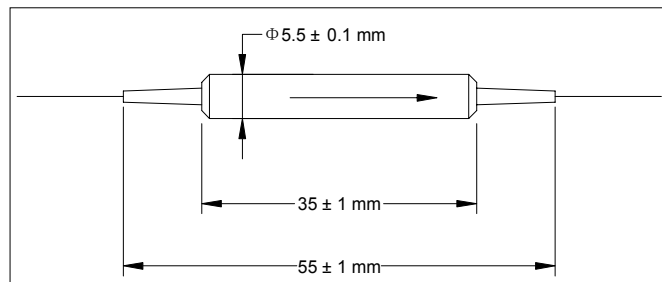
With special manufacturing process and optical path epoxy-free design, the polarization insensitive isolator has high power handling capability, high performance, high reliability and low cost. It is suitable to be used in EDFAs, Raman amplifiers, DWDM systems, fiber lasers, transmitters and other fiber optics communication equipments to reduce back reflection and back scattering.

A. Specifications

Parameter	Single Stage		Dual Stage		Unit
	Grade P	Grade A	Grade P	Grade A	
Center Wavelength (λ_c)	1310, 1480 or 1550				nm
Typ. Peak Isolation	42	40	58	55	dB
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	30	29	46	45	dB
Typ. Insertion Loss, λ_c , 23 °C; all polarization states	0.35	0.5	0.4	0.6	dB
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	0.5	0.7	0.6	0.9	dB
Min. Return Loss (Input/Output)	60/55	60/55	60/55	60/55	dB
Max. Polarization Dependent Loss, 23 °C	0.05	0.1	0.05	0.15	dB
Max. Polarization Mode Dispersion	0.20	0.25	0.05	0.07	ps
Max. Optical Power (Continuous Wave)	300				mW
Operating Temperature	-5 to +70				°C
Storage Temperature	-40 to +85				°C

*IL is 0.3 dB higher, RL is 5 dB lower for each connector added.

B. Package Dimensions



C. Ordering Information

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T: Stage	V: Grade	X: Connector Type	Y: Fiber Type (SMF-28)	Z: Fiber Length
1-Single Stage	P - Premium	1 - FC/UPC	B - 250 μ m bare fiber	1 - 1.0 m
2- Dual Stage	A - A grade	2 - FC/APC	L - 900 μ m loose tube	S - Specify
		3 - SC/UPC	T - 900 μ m tight buffer	
UU: Wavelength	W: PMD	4 - SC/APC	S - Specify	
31 - 1310 nm	1 - 0.05 ps max.	N - None		
48 - 1480 nm	2 - Refer to above spec.	S - Specify		
55 - 1550 nm				
SS - Specify				