

Polarization Maintaining Isolator (DL-PMI-T-UU-V-W-X-Y-Z)

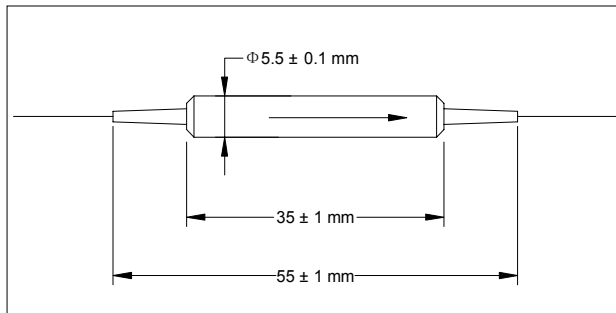
The Polarization Maintaining Isolator can be used to prevent back reflection in a laser diode or light source package. It has low insertion loss, high isolation, high return loss, high extinction ratio and excellent environmental stability and reliability. It can be used for polarization maintaining fiber amplifiers, fiber lasers, high speed communication systems and instrumentation applications.

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
Min. Extinction Ratio	20	18	20	18	dB
Typ. Peak Isolation	42	40	58	55	dB
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	30	28	46	45	dB
Max. Insertion Loss, $\lambda_c \pm 20$ nm, all temperature, all polarization states	0.6	0.7	0.7	0.9	dB
Min. Return Loss (Input/Output)	55/50	55/50	55/50	55/50	dB
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, and ER is 2 dB lower for each connector added. Connector key is aligned to slow axis.

B. Package Dimensions



C. Ordering Information

DL-PMI-T-UU-V-W-X-Y-Z

T: Stage	V: Grade	W: Connector Type	X: Fiber Type	Y: Fiber Length
1 - Single stage	P - Premium	1 - FC/UPC	B - 250 μ m Panda fiber	Q - 0.75 m
2 - Dual stage	A - A grade	2 - FC/APC	D - 400 μ m Panda fiber	S - Specify
		3 - SC/UPC	L - 900 μ m loose tube	
UU: Wavelength		4 - SC/APC	S - Specify	Z: Working Axis
31 - 1310 nm		N - None		F - Fast axis blocked
48 - 1480 nm				B - Both axes working
55 - 1550 nm				
SS - Specify				