



2 μm Polarization Maintaining Isolator (GK-PMI Series)

● Description

The 2 μm Polarization Maintaining Isolator is designed and manufactured according to Telcordia standard. The unique manufacturing process and optical path epoxy-free design enhance the device high power handling capability. The device is characterized with high performance, high reliability. It was designed specially for 2 μm laser system.

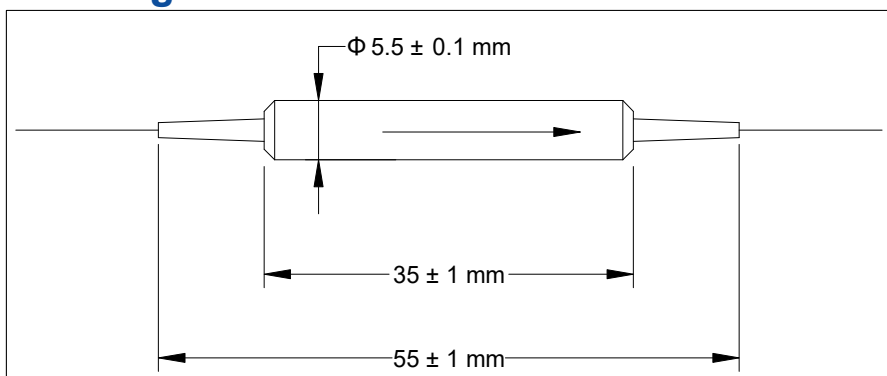
● Specifications

Parameter	Unit	Single Stage	Dual Stage
Center Wavelength (λ_c)	μm	2	
Min. Extinction Ratio	dB	18	18
Min. Isolation, $\lambda_c \pm 50 \text{ nm}$, 23 $^{\circ}\text{C}$ all polarization states	dB	16	35
Max. Insertion Loss, $\lambda_c \pm 20 \text{ nm}$, 23 $^{\circ}\text{C}$, all polarization states	dB	1.3	1.5
Min. Return Loss (Input/Output)	dB	50	50
Max. Average Optical Power	W	1, 2	
Max. Peak Power for ns Pulse	kW	10	
Max. Tensile Load	N	5	
Fiber Type	-	PM 1550 Panda Fiber	
Operating Temperature	$^{\circ}\text{C}$	- 5 to + 70	
Storage Temperature	$^{\circ}\text{C}$	- 40 to + 85	

¹IL 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

²The Optical Power is 1 W only for connector added.

● Package Dimensions



● Ordering Information

GK-PMI-①-②-③-④-⑤-⑥-⑦-⑧

①: Wavelength

2000 - 2000 nm

SSSS - Specify

②: Handling Power

1 - 1 W

2 - 2 W

S - Specify

③: Stage

1 - Single Stage

2 - Dual Stage

④: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

⑤: Fiber Jacket

B - 250 μ m Panda Fiber

L - 900 μ m Loose Tube

S - Specify

⑥: Fiber Length

Q - 0.75 m

S - Specify

⑦: Working Axis

F - Fast Axis Blocked

B - Both Axis Working

⑧: Power Type

P - Pulse Application

C - Continuous Wave