



1064 nm Polarization Sensitive Isolator (GK-PSI & PDI Series)

● Description

The Polarization Sensitive 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 optical isolator is characterized with high performance, high reliability and low cost. It has been widely used in EDFAs, Raman amplifiers, DWDM systems, fiber lasers, transmitters and other fiber optics communication equipments to suppress back reflection and back scattering.

● Key Features

- High Isolation
- High Return Loss
- Low Insertion Loss

● Applications

EDFAs

Raman Amplifiers

DWDM Systems

● Specifications

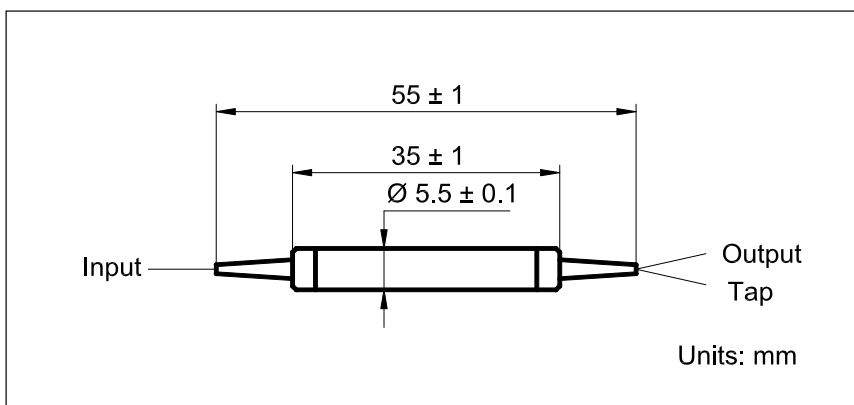
Parameter	Unit	Value			
		Single Stage		Dual Stage	
Stage	-	Single Stage		Dual Stage	
Grade	-	Grade P Grade A		Grade P Grade A	
Center Wavelength (λ_c)	nm	1064			
Typ. Peak Isolation	dB	40	38	55	52
² Min. Isolation, λ_c , 23 °C, all polarization states, \leq 30 mW	dB	32	30	45	42
Typ. Insertion Loss, λ_c , 23 °C, all polarization states	dB	1.5	1.6	2.4	2.6
Max. Insertion Loss, λ_c , - 5 °C to 50 °C, all polarization states	dB	2.0	2.2	3.4	3.6
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Min. Polarization Dependent Loss, 23 °C	dB	20	20	20	20
Max. Optical Power (Continuous Wave)	mW	300			

Max. Tensile Load	N	5
Fiber Type	-	HI 1060 Fiber
Operating Temperature	°C	- 5 to + 50
Storage Temperature	°C	- 40 to + 85

¹IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

²The isolation is related to the input power. Please inform us when you need high isolation and operate above 30 mW.

● Package Dimensions



● Ordering Information

GK-PSI-06-①-②-③-④

GK-PDI-06-①-②-③-④

①: Grade

P - Premium

A - A Grade

②: Connector Type

1 - FC/UPC 4 - SC/APC

2 - FC/APC N - None

3 - SC/UPC S - Specify

③: Fiber Type

B - 250 μm Bare Fiber

L - 900 μm Loose Tube

S - Specify

④: Fiber Length

1 - 1.0 m

S - Specify