



## 1064 nm Polarization Insensitive Isolator (GK-PSSI & PDSI Series)

### ● Description

The 1064 nm Polarization Insensitive Isolator features a compact package, low insertion loss, high isolation, high return loss and excellent environmental stability and reliability. With unique design, the device can handle very high peak power. This fiber isolator is ideal for suppressing back reflection in fiber lasers and other high performance laser based fiber optics systems.

### ● Key Features

- High Isolation
- High Return Loss
- Low Insertion Loss

### ● Applications

Fiber Lasers

Raman Amplifiers

Transmitters

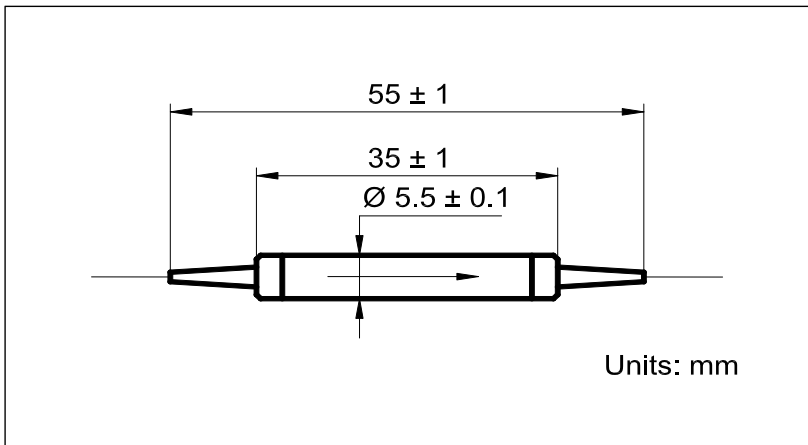
### ● Specifications

Parameter	Unit	Value			
Stage	-	Single Stage		Dual Stage	
Grade	-	Grade P	Grade A	Grade P	Grade A
Center Wavelength ( $\lambda_c$ )	nm	1064			
Typ. Peak Isolation	dB	40	38	55	52
<sup>2</sup> Min. Isolation, $\lambda_c$ , 23 °C, all polarization states $\leq$ 30 mW	dB	30	28	45	42
Typ. Insertion Loss, $\lambda_c$ , 23 °C, all polarization states	dB	1.5	1.6	2.4	2.6
Max. Insertion Loss, $\lambda_c$ , - 5 °C to + 50 °C	dB	2.0	2.2	3.4	3.6
Min. Return Loss (Input/Output)	dB	55/50	55/50	55/50	55/50
Max. Polarization Dependent Loss, 23 °C	dB	0.15	0.15	0.15	0.15
Max. Average Optical Power	mW	300			
Max. Peak Power for ns Pulse	kW	10			
Max. Tensile Load	N	5			
Fiber Type	-	HI 1060 Fiber			
Operating Temperature	°C	- 5 to + 50			
Storage Temperature	°C	- 40 to + 85			

<sup>1</sup>IL is 0.5 dB higher, RL is 5 dB lower for each connector added.

<sup>2</sup>The 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-PSSI-06-①-②-③-④-⑤

GK-PDSI-06-①-②-③-④-⑤

### 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 Jacket

B - 250 μm Bare Fiber  
L - 900 μm Loose Tube  
S - Specify

### ④: Fiber Length

1 - 1.0 m  
S - Specify

### ⑤: Power Type

P - Pulse Application  
C - Continuous Wave