



Polarization Sensitive Isolator (GK-PSI Series)

● Description

The Polarization Maintaining RC Fiber Isolator is designed and manufactured 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 and low cost. It has been widely used in EDFAs, DWDM systems, sensors, compact optical circuits and other fiber optic communication equipments to suppress back reflection and back scattering.

● Specifications

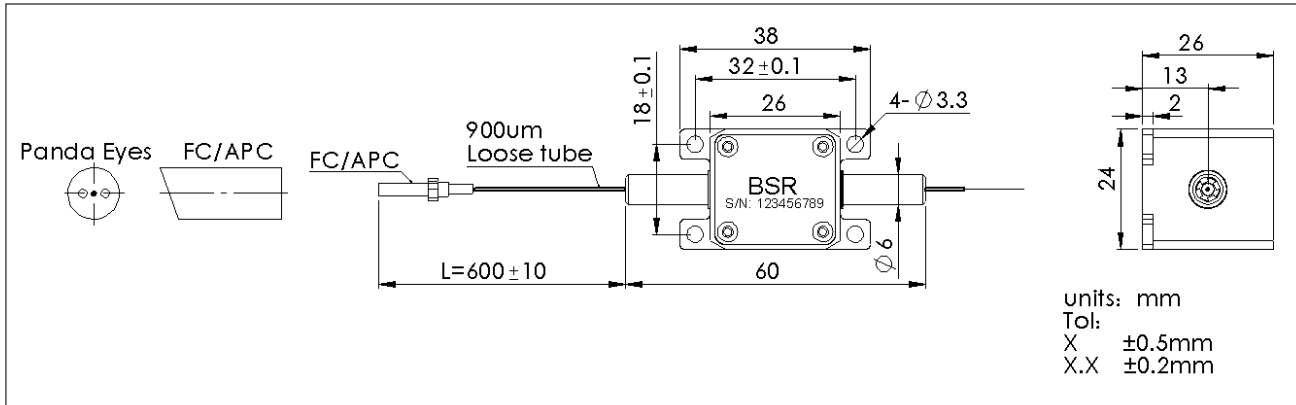
Parameter	Unit	Value
Operating Wavelength (λ_{op})	nm	638
Typ. Insertion Loss, 25 - 45 °C ¹	dB	1.3
Max. Insertion Loss, 25 - 45 °C ²	dB	1.5
Min. Isolation, λ_c , 40 °C, all polarization states ²	dB	30
Min. Isolation, λ_c , 25 °C, all polarization states	dB	23
Fiber Type	Input Port	-
	Output Port	-
Fiber Length ³	Input Port	PM 630 HPSM
	Output Port	630 HP
	Input Port	60 ± 1
	Output Port	80 ± 20
Operating Temperature	°C	+ 25 to + 45

¹IL is 0.25 dB higher for one connector added.

²Isolation is optimized at 40 °C.

³Measured from the end face of the fiber protection sleeve to the end of fiber.

● Package Dimensions And Labeling Requirement



Letters "BSR" and serial number will be engraved on the isolator body.

BSR PN: PSFI 638BSR01-02-05

AFR provide the electronic test data sheet including Isolation and Insertion Loss at 25, 40deg C when shipping.

● Ordering Information

GK-PSI-①-②-③-④-⑤

①: Wavelength

638 - 638 nm

②: Connector Type for Input

S - FC/APC Ferrule

N - None

③: Connector Type for Output

N - None

④: Fiber Jacket

B - 250 μm Loose Tube

L - 900 μm Loose Tube

⑤: Fiber Length

1 - 1.0 m

Q - 0.75 m

S - Input Fiber 60 ± 1 cm, and Output Fiber 80 ± 20 cm