



## 2 in 1 Polarization Insensitive Isolator (GK-TPI Series)

### ● Description

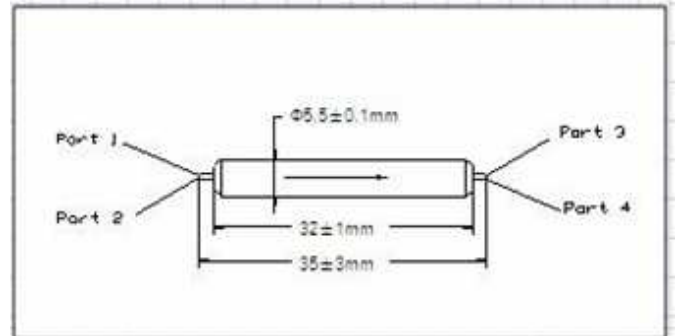
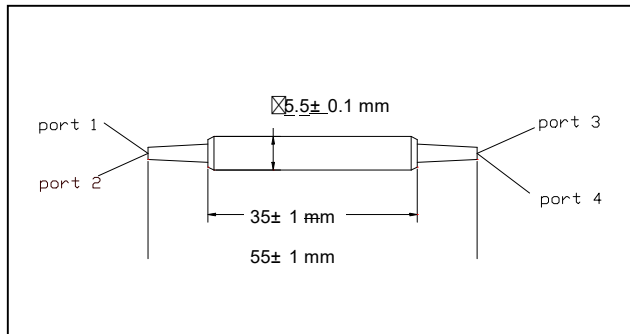
The Twin Isolator integrates two independent isolators into one standard isolator package and is excellently suited for EDFAs or instrumentation designs where two or more isolators are used. The Twin Isolator offers excellent temperature stability, low IL loss, high isolation, low temperature dependence and great space saving.

### ● Specifications

Parameter	Unit	Single Stage Dual Stage	
		Grade P	
Center Wavelength ( $\lambda_c$ )	nm	1310, 1480, 1550	
Typ. Peak Isolation (Port 4 to Port 1, Port 3 to Port 2)	dB	40	54
Min. Isolation (Port 4 to Port 1, Port 3 to Port 2), $\lambda_c \pm 10$ nm, 23 °C, all polarization	dB	30	42
Typ. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3), $\lambda_c$ , 23 °C, all polarization	dB	0.5	0.6
Max. Insertion Loss (Port 1 to Port 4, Port 2 to Port 3), $\lambda_c \pm 20$ nm, all polarization	dB	0.65	0.80
Min. Return Loss (Input/Output)	dB	55/55	55/55
Directivity (Port 1 to Port 2, Port 3 to Port 4), $\lambda_c$ , 23 °C	dB	55	55
Min. Crosstalk (Port 1 to Port 3, Port 2 to Port 4), $\lambda_c$ 23 °C	dB	50	50
Max. Polarization Dependent Loss, $\lambda_c$ , 23 °C	dB	0.1	0.1
Max. Polarization Mode Dispersion	ps	0.2	0.05
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Operating Temperature	°C	- 5 to + 70	
Storage Temperature	°C	- 40 to + 85	

<sup>1</sup>IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

## ● Package Dimensions



## ● Ordering Information

GK-TPI-①-②-③-④-⑤-⑥-⑦

### ①: Stage

- 1- Single Stage
- 2- Dual Stage

### ②: Wavelength

- 31 - 1310 nm
- 48 - 1480 nm
- 55 - 1550 nm
- SS - Specify

### ③: Grade

- P - Premium

### ④: PMD

- 2 - Refer to above spec

### ⑤: Connector Type

- 1 - FC/UPC
- 2 - FC/APC
- 3 - SC/UPC
- 4 - SC/APC

### ⑥: Fiber Type

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

### ⑦: Fiber Length

- 1 - 1 m
- S - Specify

- N - None
- S - Specify