



## Polarization Insensitive Tap Isolator Hybrid (TAPI Series)

Rev 10

The Polarization Insensitive Tap Isolator combines a tap coupler and polarization insensitive isolator into a single compact package. It has low polarization dependent loss and very low insertion loss variation. The component is ideally suited for fiber amplifier and fiberoptic system where signal monitoring is required.

### Specifications

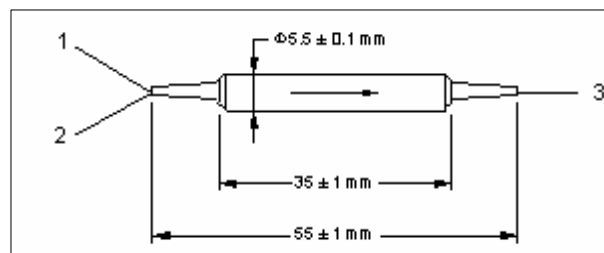
Parameter	Unit	Single Stage	Dual Stage
Center Wavelength	nm	1310 or 1550	
Typ. Peak Isolation	dB	40	55
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	dB	30	45
Typ. Insertion Loss <sup>2</sup> , $\lambda_c \pm 20$ nm, 23 °C, all polarization states	dB	0.45	0.6
Max. Insertion Loss <sup>2</sup> , $\lambda_c \pm 20$ nm, -5 °C - 70 °C, all polarization states	dB	0.6	0.8
Max. Polarization Dependent Loss (1 to 3 and 1 to 2)	dB	0.1	0.15
Max. Polarization Mode Dispersion (1 to 3)	ps	0.25 <sup>1</sup>	0.05
Directivity (3 to 2)	dB	55	
Min. Return Loss (Input/Output)	dB	55/55	
Tap Ratio & Tolerance <sup>3</sup>	%	1.0 $\pm$ 0.2 or specify	
Max. Optical Power (Continuous Wave)	mW	300	
Max. Tensile Load	N	5	
Fiber Length	m	1	
Fiber Type		SMF-28 fiber	
Operating Temperature	°C	-5 to +70	
Storage Temperature	°C	-40 to +85	

<sup>1</sup> Low PMD version is available. PMD < 0.05 ps

<sup>2</sup> Specs are only for 1% tap ratio. <sup>3</sup> Customized tap ratio is available.

\*IL is 0.3 dB higher and RL is 5 dB lower for each connector added.

### Package Dimensions



### Ordering Information

TAPI-①-②②-③③-④-⑤-⑥-⑦

①: Stage	②②: Wavelength	③③: Tap Ratio	⑤: Connector Type	⑥: Fiber Jacket
1 - Single stage	31 - 1310 nm	01 - 1/99	1 - FC/UPC	B - 250 um bare fiber
2 - Dual stage	48 - 1480 nm	SS - Specify	2 - FC/APC	L - 900 um loose tube
	55 - 1550 nm		3 - SC/UPC	S - Specify
	SS - Specify	④: PMD	4 - SC/APC	
		1 - 0.05 ps max	N - None	⑦: Fiber Length
		2 - Refer to above spec	S - Specify	1 - 1.0 m
				S - Specify