

Polarization Insensitive Tap Isolator (DL-TAPI-T-UU-VV-W-X-Y-Z)

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. It is ideally suited for fiber amplifier and fiberoptic system where signal monitoring is required.

A. Specifications

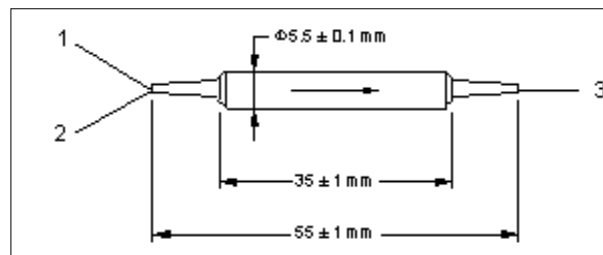
Parameters	Single Stage	Dual Stage	Unit
Center Wavelength	1310 or 1550		nm
Typ. Peak Isolation	40	55	dB
Min. Isolation, $\lambda_c \pm 10$ nm, 23 °C, all polarization states	30	45	dB
Typ. Insertion Loss*, $\lambda_c \pm 20$ nm, 23 °C, all polarization states	0.45	0.6	dB
Max. Insertion Loss*, $\lambda_c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

*Specs are only for 1% tap ratio. **Customized coupling ratio is available.

¹Low PMD version is available. PMD < 0.05 ps

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

B. Package Dimensions



C. Ordering Information

DL-TAPI-T-UU-VV-W-X-Y-Z

T: Stage	UU: Wavelength	VV: Coupling Ratio	X: Connector Type	Y: Fiber Type (SMF-28)
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	W: PMD	4 - SC/APC	
		1 - 0.05 ps max	N - None	Z: Fiber Length
		2 - Refer to above spec	S - Specify	1 - 1.0 m
				S - Specify