Unidirectional Integrated Tap Photodiode (UTPD Series)

Rev 11

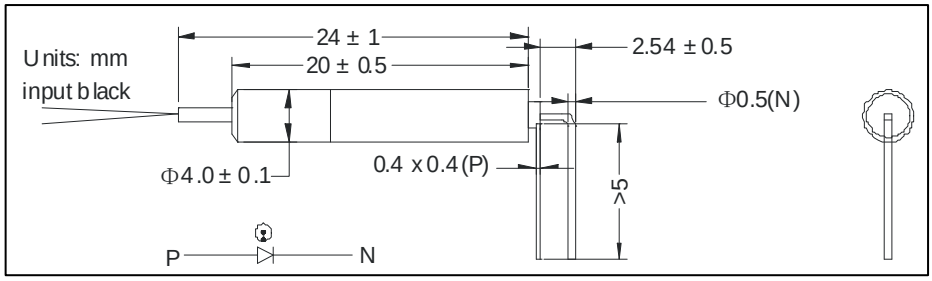
The Unidirectional Integrated Tap Photodiode (UTPD) integrates the functionality of an optical coupler and a photodiode for optical network's power detection. The unidirectional feature allows the PD responds power from input port only. It can be applied for channel power monitoring in DWDM system, in-line optical network switching protection monitoring (OLP), re-configurable optical add/drop multiplexer (OADM), and gain/attenuation monitoring in EDFA, etc.

Specifications

Parameter		Unit	Value
operating Wavelength Range(λop)		nm	1520 - 1610
Max. Insertion Loss	1%	dB	0.4
	2%		0.5
	5%		0.6
Wavelength Flatness		dB	≤0.15
Max. Polarization Dependent Loss		dB	0.05
Min. Return Loss		dB	45
Responsivity	1%	mA/W	7 - 15
	2%		14 - 25
	5%		35 - 65
Min. Directivity From Output to PD		dB	25
Max. Dark Current (@23 ℃, -5 V bias)		nA	1
Max. Power on photodetector		mW	10
Operating Temperature		℃	0 to +70
Storage Temperature		℃	-40 to +85
Soldering temperature(Over 2 mm from head, less than 5 s)		℃	≤260

*IL is 0.5 dB higher, RL is 5 dBlower for each connector added.

Package Dimensions



Ordering Information

UTPD-①-②②-③③-④-⑤⑤-⑥-⑦

①: Center Wavelength
E - 1520 - 1610 nm

②②: Tap Ratio
01 - 1%
02 - 2%
05 - 5%

③③:Bandwidth
20 - 2.0 G

④:Package Type
2 - Mini size package

⑤⑤: Fiber Type
28 - SMF-28 fiber

⑥: Fiber Length
1 - 1.0 m
S - Specify

⑦: Connector type
1 - FC/UPC
2 - FC/APC
3 - SC/UPC
4 - SC/APC
N - None
S - Specify