



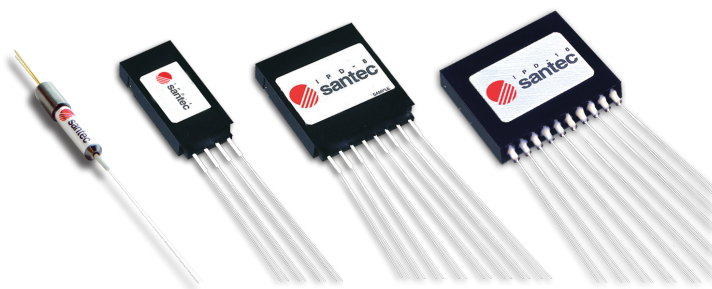
Unidirectional Tap-Integrated Photo Detector

IPD-UD-1/4/8/10

Product Overview

Santec's Unidirectional Tap-Integrated Photo Detector is an optical power monitoring device consisting of individual tap-integrated photo detectors. The IPD is very compact and is easily mounted on a PCB for system use. Optical properties are excellent and include a broad wavelength range covering C and L-band with low insertion loss and high sensitivity.

The IPD eliminated the need for an optical fiber coupler/splitter and a photo detector. The IPD provides a simple and low cost solution for optical power monitoring at DWDM and switch. Especially Santec's Unidirectional Tap-Integrated Photo Detector is useful for amplifier systems.



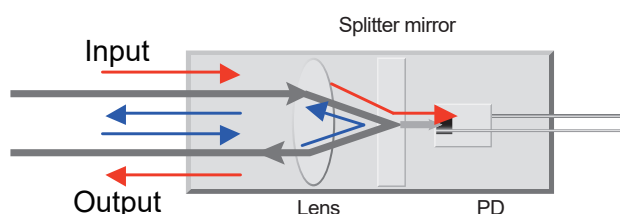
Features

- Excellent Characteristics
- High Directivity
- Compact Design
- Custom to Build Available
- Minimum Fiber Bending Radius of 5 mm is available
- High Quality (GR-468-CORE Qualified)
- RoHS Compliant

Applications

- Power and Channel Monitoring for WDM Systems
- Power Control Monitoring for Amplifier
- Optical Monitoring for Switching Systems
- Supervisory for Equipment Systems

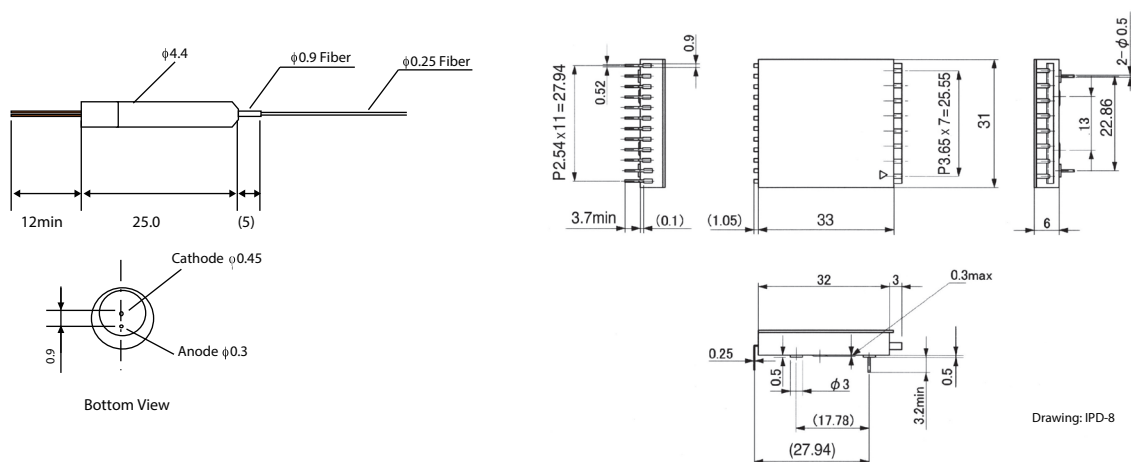
Configuration



Specifications

Parameter	Unit		Type				Notes
			U1	U2	U5	U9	
Insertion Loss	Max.	dB	0.5	0.5	0.6	0.8	All Operating Conditions
Directivity	Min.	dB	33				-
Return Loss	Min.	dB	45				-
PD Responsivity	-	mA/W	8 to 20	14 to 24	40 to 70	70 to 120	All Operating Conditions, 5 V Bias
Dark Current	Max.	nA	5				70 °C, 5 V Bias
Reverse Voltage	Max.	V	10				-
Forward Current	Max.	mA	5				-
Wavelength Range	-	nm	1510 to 1610				-
Storage Temperature Range	-	°C	-40 to 85				Non condensation
Operating Temperature Range	-	°C	-5 to 70				Non condensation
Input Optical Power	Max.	dBm	+23	+20	+16	+13	-
Fiber Length	Min.	mm	1000+/-100				0.25 mm coating SMF
Dimension	-	mm	4.4(D)x25(L)				IPD-1
			17.5x32x6				IPD-4
			31x32x6				IPD-8
			39x32x6				IPD-10

Dimensions Unit [mm]



Ordering Code

IPD - A - B - C - D

Pin Assignment
Array Type: AC: Anode Common / CC: Cathode Common

Connector: 00: No Connector / SC: SC-SPC / MU: MU-SPC / LC: LC-SPC
* For other connectors, please contact us.

Type(See Specifications): U1 / U2 / U3 / U5 / U9

Channel: 1: 1ch / 4: 4ch / 8: 8ch / 10: 10ch



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