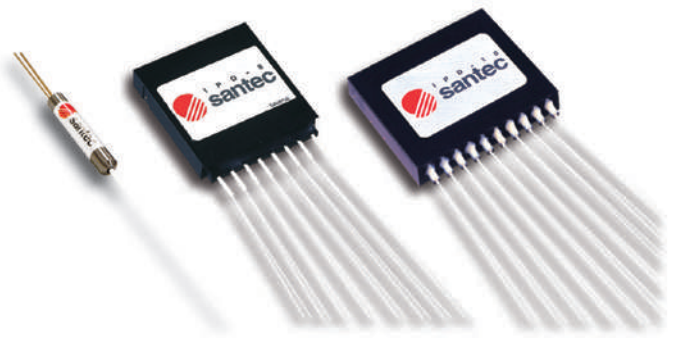


Unidirectional Tap-Integrated Photo Detector IPD-UD

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.



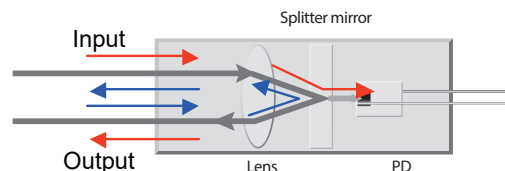
Features

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

Applications

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

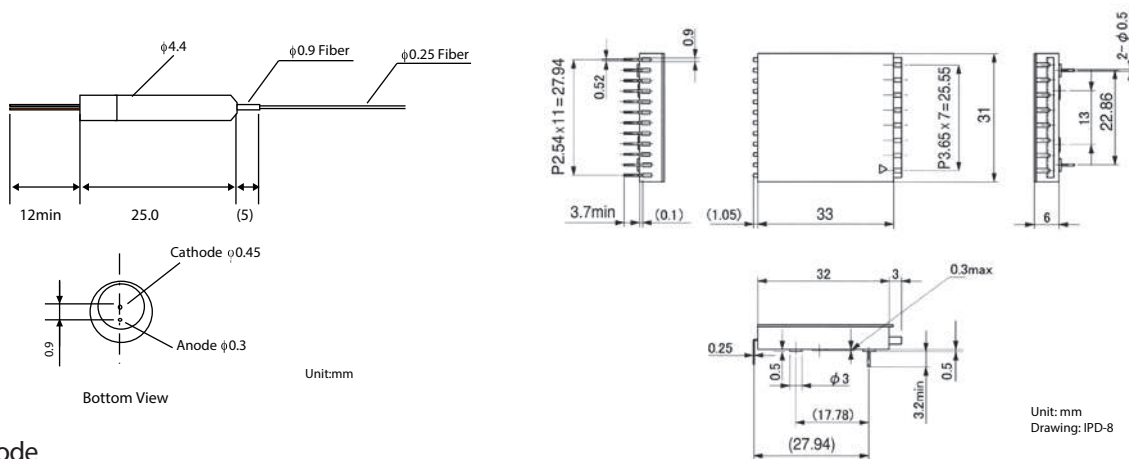
Dimension



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, 5V Bias
Dark Current	Max.	nA	\$				70°C, 5V 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				0.25mm coating SMF
Dimension	-	mm	4.4(D)x25(L)				IPD-1
			31x32x6				IPD-8
			39x32x6				IPD-10

Dimension



Ordering Code

IPD - A - B - C - D

A=Channel

1=1ch, 8=8ch, 10=10ch

B=Type (See Specifications)

U1, U2, U3, U5, U9

C=Connector

00=No Connector

SC=SC-SPC, MU=MU-SPC, LC=LC-SPC

* For other connectors, please contact us.

D=Pin Assignment

Array Type : AC=Anode Common, CC=Cathode Common

www.santec.com/en/

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