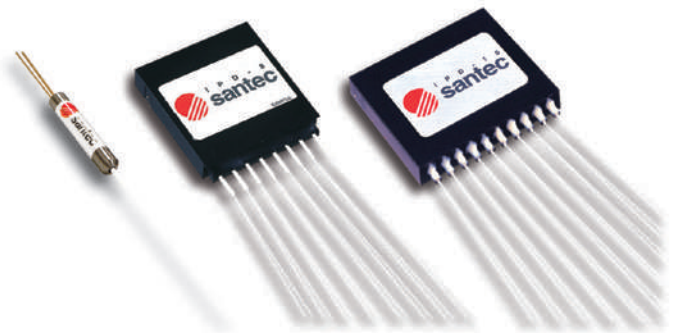


Tap-Integrated Photo Detector IPD

The IPD 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, switch and amplifier systems.



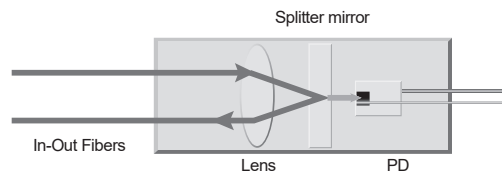
Features

- ▶ High Quality (GR-468-CORE Qualified)
- ▶ Excellent Characteristics
- ▶ Compact Design
- ▶ Minimum Fiber Bending Radius of 5mm is available

Applications

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

Dimension



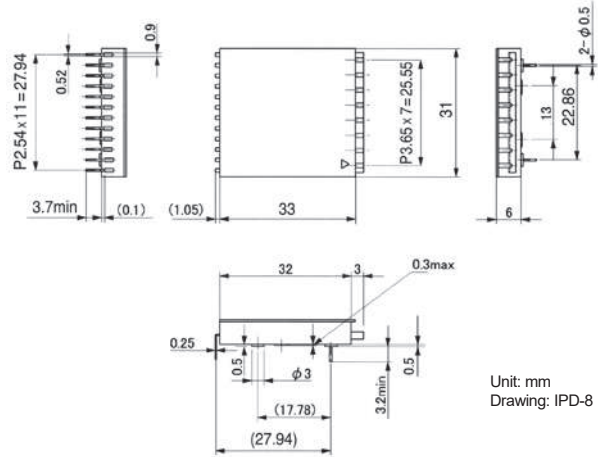
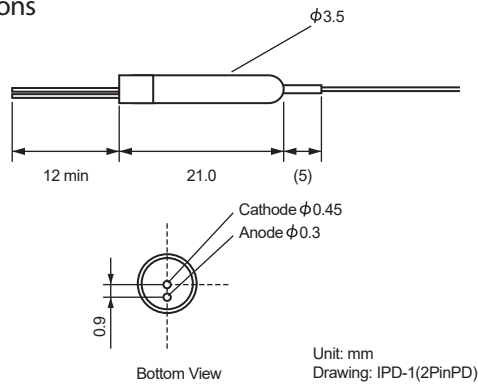
Options

IPD-UW	Operates over a wide wavelength range, 1260-1610nm
--------	--

Specifications

Parameter	Unit		Type				Notes
			S1	S2	S5	S9	
Insertion Loss	Max.	dB	0.5	0.5	0.6	0.8	All Operating Conditions
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	5				70°C, 5V Bias
Reverse Voltage	Max.	V	10				-
Forward Current	Max.	mA	5				-
Wavelegth 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				0.25mm coating SMF
Dimension	-	mm	3.5(D) × 21(L)				IPD-1
			31 × 32 × 6				IPD-8
			39 × 32 × 6				IPD-10

Dimensions



Ordering Code

IPD-A-B-C-D

A=Channel

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

B=Type (See Specifications)

S1, S2, S3, S5, S9

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/

2023© Santec AOC corporation santec reserves the right to make changes in equipment design, components or specifications without notice.



Santec Japan Corporation

5823 Ohkusa-Nenjozaka, Komaki, Aichi 485-0802, Japan Tel. +81-568-79-3536 Fax +81-568-79-1718

Santec USA Corporation

400 Kelby Street Suite 1501, Fort Lee, NJ 07024, USA Toll Free +1-800-726-8321(santec-1) Tel. +1-201-488-5505 Fax +1-201-488-7702

Santec Europe Ltd.

99 Park Drive Milton Park, Abingdon Oxfordshire, OX14 4RY, U.K. Tel. +44-20-3176-1550

Santec (Shanghai) Co., Ltd.

21F Room H, Hua Du Bldg., No.838 Zhangyang Road, Pudong District, Shanghai 200122 China Tel: +86-21-58361261, Fax: +86-21-58361263