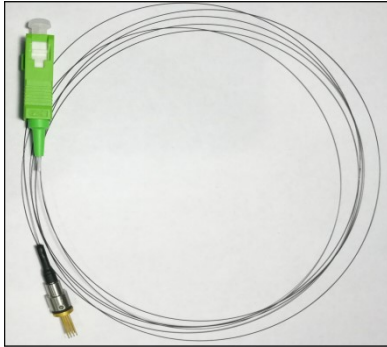


Cooled APD

LTPR202-1-SMX



Key Features

- Long wavelength operation
- 8 pin TO package
- WithTEC
- Low dark current
- Excellent reliability compliance to GR-468-CORE
- Compliance to RoHS standard

Applications

- Optical fiber sensor system
- Optical fiber communications system

Description

The product integrates a high linearity InGaAs APD with TEC and temperature monitor, low dark current, high linearity, high responsivity.

Absolute Maximum Ratings

Note: Stresses in excess of the Absolute Maximum Rating can cause permanent damage to the device

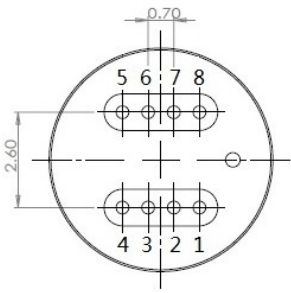
Parameter	Symbol	Min.	Max.	Unit
Forward current	IF		5	mA
Reverse current	IR		3	mA
Reverse voltage	VR		Vbr	V
Storage Temperature	Ts	-40	+85	°C
Operating Temperature	Top	-35	+85	°C

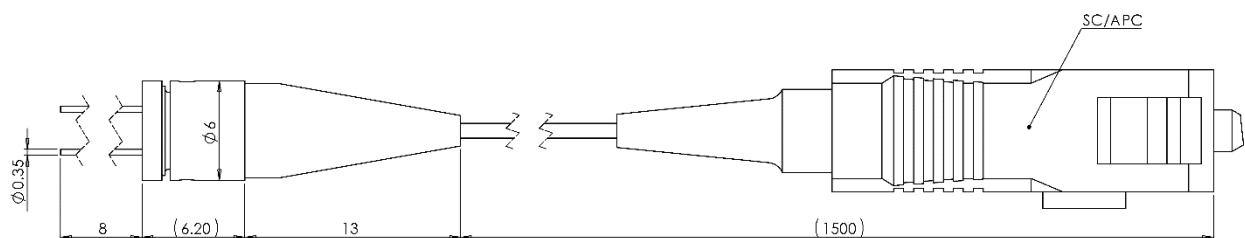
Specifications(Tc=25°C, unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Optical Wavelength	λ	-	1100	-	1650	nm
Breakdown Voltage	Vbr	Id=10uA, Tc=25°C	38	-	50	V
Dark Current	Id	Tc=25°C ;VR=Vbr-3V	-	2.4	4	nA
Responsivity	Re	$\lambda = 1550\text{nm}$, VR=Vbr-3V, 25°C	10	15		A/W
TEC Current	ITEC	I _{max}	-	-	900	mA
Cutoff frequency	fc	Tc=+25°C ;VR=Vbr-3V	2.0	3.0	-	GHz
Capacitance	C	f=1MHz, VR=Vbr-3V		0.38	0.5	pF
Thermistor	RT	@25°C	9.5	10	10.5	kΩ

Dimensions (in millimeters)

Pin Assignments

	Pin	Symbol	Description
	1	TEC+	TEC anode
	2	APD-	APD cathode
	3	RTH	thermistor
	4	GND	Header
	5	GND	Header
	6	RTH	thermistor
	7	APD+	APD anode
	8	TEC-	TEC cathode



单位: mm

Order information

Family name	Rx	PD Type	Package	-	TEC	-	Fiber	Connector
Lighttip		2: long wavelength APD	02: 8pinTO	-	1: with TEC	-	SM: single mode	2: SC/APC 5: FC/APC
LTP	R	2	02	-	1	-	SM	X