PP13-B2T4N-I Rev 1.0

2.5Gbps InGaAs PIN PD TO-46 package with Preamp

Features

: InGaAs PIN PD
: 2.5 Gbps data rates
: Packaged with preamplifier
: Wide operating wavelength range
: Ball Lens type TO-46 Can Package
: RSSI (Received Signal Strength Indicator)
: Other configurations available on request

Description

Applications

: High speed Data Communications
: SONET/SDH

Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-40 to 100℃
Operating Temperature	-40 to 85℃
Lead Solder Temperature	260℃, 10sec
Power Supply Voltage	-0.5 to 4.5V
Incident Optical Power	0 dBm average, 4 dBm Peak

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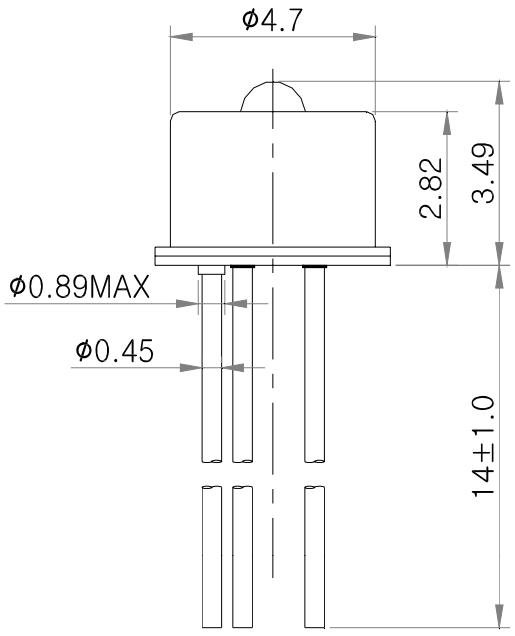
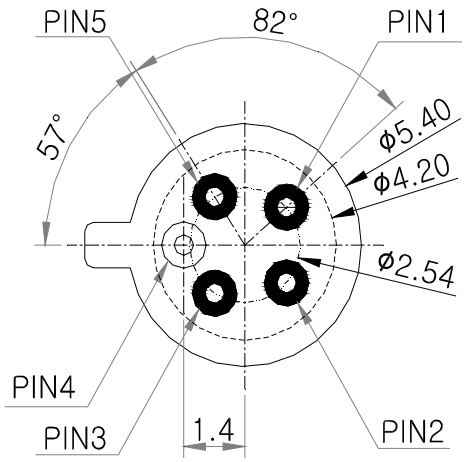
Dimensions

Unit :mm





Bottom View

PIN OUT

PP13-B2T4N-I	
Number	Function
1	V_{CC}
2	RSSI(Source)
3	Vout-
4	GND
5	Vout+

To use the RSSI pin ;
Connect the pin2 to GND using a resistor

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Electro-Optics Characteristics (V_{CC}=3.3V, T_a=25℃ unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Supply Voltage	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}		31	36	mA	
Sensitivity	S		-27		dBm	BER=1E10^{-10} PRBS=2^{7}-1 at 2.5Gbps
Optical Overload	OL		3	6	dBm	
Differential Output Voltage	$V_{,diff}$		260		mV_{pp}	P_{ave}=-6dBm, λ=1550nm
3dB Bandwidth	$f_{h,-3dB}$	1500			MHz	P_{ave}=-27dBm, λ=1550nm
Low Frequency Cutoff	LF		11		KHz	
Output Resistance	R_o	80	100	120	Ω	Differential VOUT+ to VOUT-
Wavelength	λ	1100		1600	nm	
PD Bias Voltage	V_{PD}		2.5		V	
Monitor Current Range	I_{MON}	0.5		1800	μA	
Monitor Compliance Voltage	V_{Comp}			1.1	V	

Notes

* These specifications are subject to change without notice

NOTICE	The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

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