

Features

- : GaAs PIN PD LC ROSA
- : 2.5 Gbps data rates
- : Packaged with preamplifier
- : RSSI (Received Signal Strength Indicator)
- : Other configurations available on request

Applications

- : High speed Data Communications
- : Fiber Channel
- : Gigabit Ethernet

Description

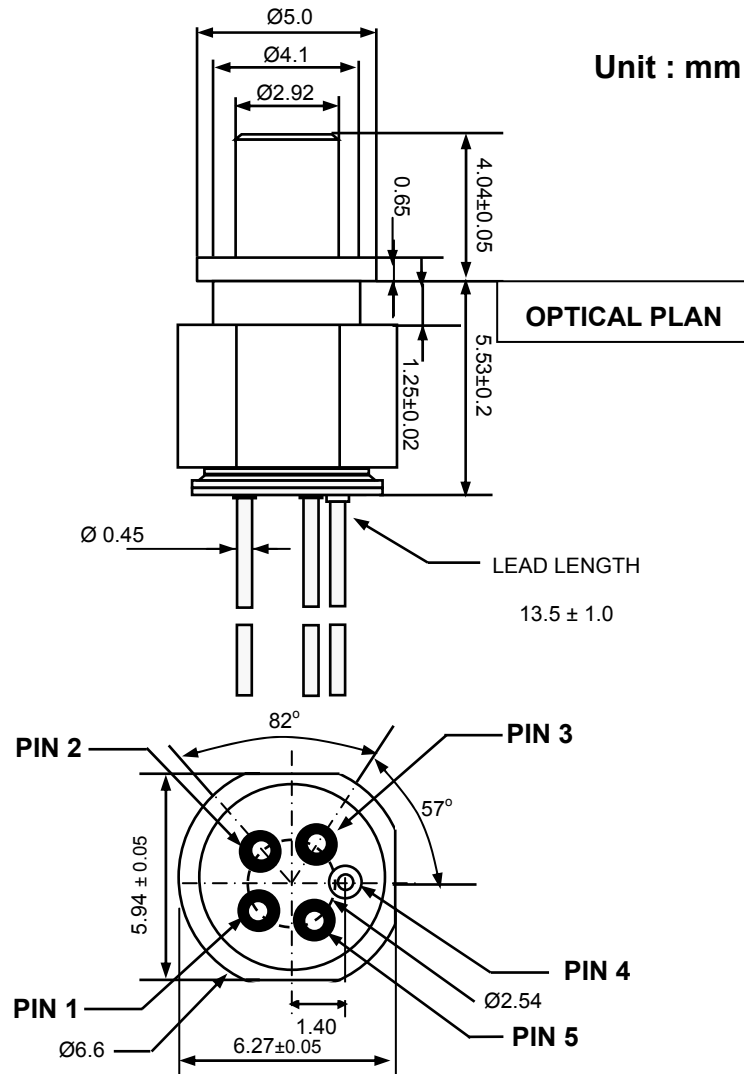


Absolute Maximum Ratings

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

Dimensions

Unit : mm



Bottom View

PIN OUT

Number	Function
1	V _{CC}
2	RSSI
3	V _{OUT-}
4	GND
5	V _{OUT+}

To use the RSSI pin :

Connect the pin2 to Vcc using a resistor of less than 2K .

Electro-Optics Characteristics ($V_{CC}=3.3V$, $T_a=25^{\circ}C$ 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}		29	40	mA	
Sensitivity	S	-20	-22		dBm	BER=1E10 ⁻¹² PRBS=2 ⁷ -1 at 2.5Gbps
Optical Overload	OL		0		dBm	
Differential Saturated Output Swing	$V_{o,sat,diff}$	300	550	700	mV _{pp}	
3dB Bandwidth	$f_{n,-3dB}$		2		GHz	$P_{ave}=-20dBm, \lambda=850nm$, referenced to
Low Frequency Cutoff	LF		50	150	KHz	100MHz
Rise/Fall Time	t_R/t_F		130		ps	$P_{ave}=-20dBm, \lambda=850nm$
Output Resistance	R_o		50		Ω	
PD Bias Voltage	V_{PD}	1.5		2.5	V	
Monitor Current Slope vs I_{IN}	I_{MON-I}		1			
Monitor Current Offset	I_{OFFSET}		0		μA	no photo current
Monitor Current linearity range	I_{RANGE}	1		1000	μA	

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