

**Features**

- : LC ROSA
- : GaAs PIN PD
- : 1.25 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**

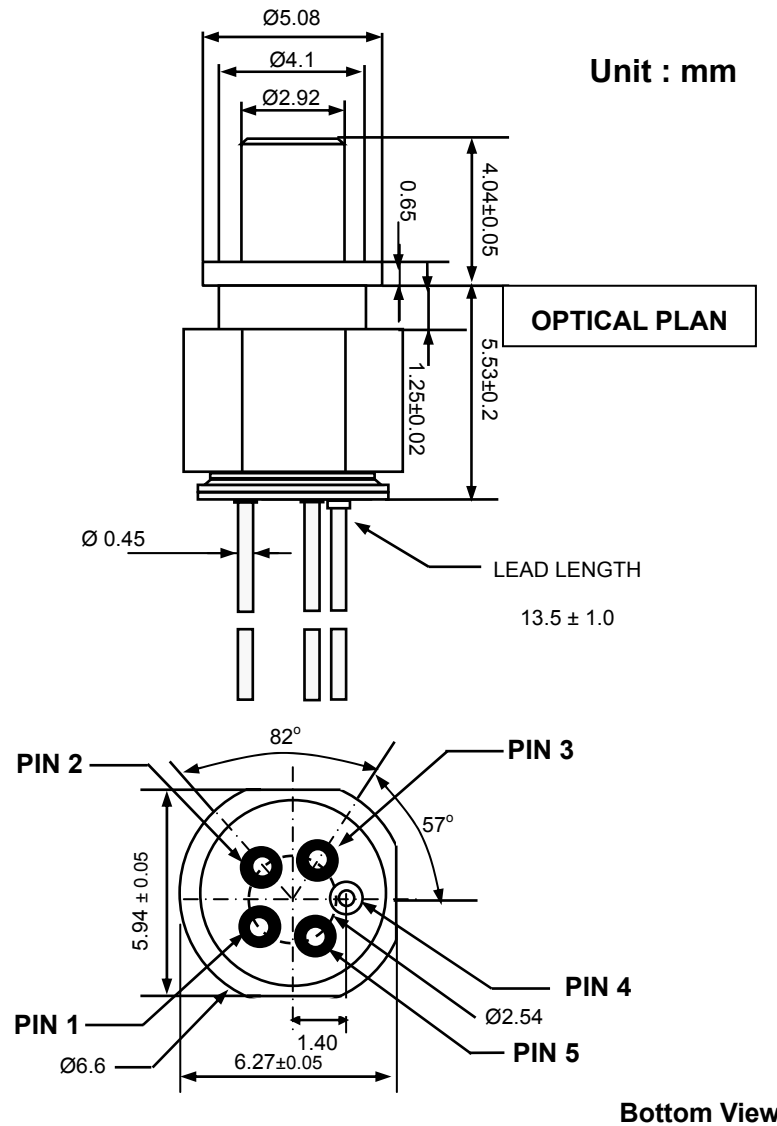


**Absolute Maximum Ratings**

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, 5 dBm Peak

Dimensions

Unit : mm



Bottom View

PIN OUT

Number	Function
1	V <sub>CC</sub>
2	RSSI
3	V <sub>OUT-</sub>
4	GND
5	V <sub>OUT+</sub>

**To use the RSSI pin :**

**Connect the pin2 to GND 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	$I_{CC}$	23	28	35	mA	
Sensitivity	S	-22	-25		dBm	BER=1 $\times$ 10 <sup>-12</sup> PRBS=2 <sup>7</sup> -1 at 1.25Gbps
Optical Overload	OL		0		dBm	
Differential Output Voltage	$V_{o,diff}$		210	270	mV <sub>pp</sub>	$P_{ave}=-20dBm, \lambda=850nm,$
3dB Bandwidth	$f_{n,-3dB}$	730	812	893	MHz	$P_{ave}=-30dBm, \lambda=850nm$
Low Frequency Cutoff	LF	50	70	115	KHz	
Rise/Fall Time	$t_R/t_F$		250		ps	$P_{ave}=-20dBm, \lambda=850nm$
Output Resistance	$R_o$		50		$\Omega$	
PD Bias Voltage	$V_{PD}$	1.8	2.5	2.9	V	
Monitor Current Slope vs $I_{IN}$	$I_{MON-I}$		1			
Monitor Current Offset	$I_{OFFSET}$		0		$\mu A$	no photo current
Monitor Current linearity range	$I_{RANGE}$	0.5		1800	$\mu A$	

**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