

Features

- : GaAs PIN PD LC ROSA
- : 1.25 Gbps data rates
- : Packaged with preamplifier
- : V_{PD} (Separated PD bias pin)
- : Other configurations available on request

Applications

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

Description

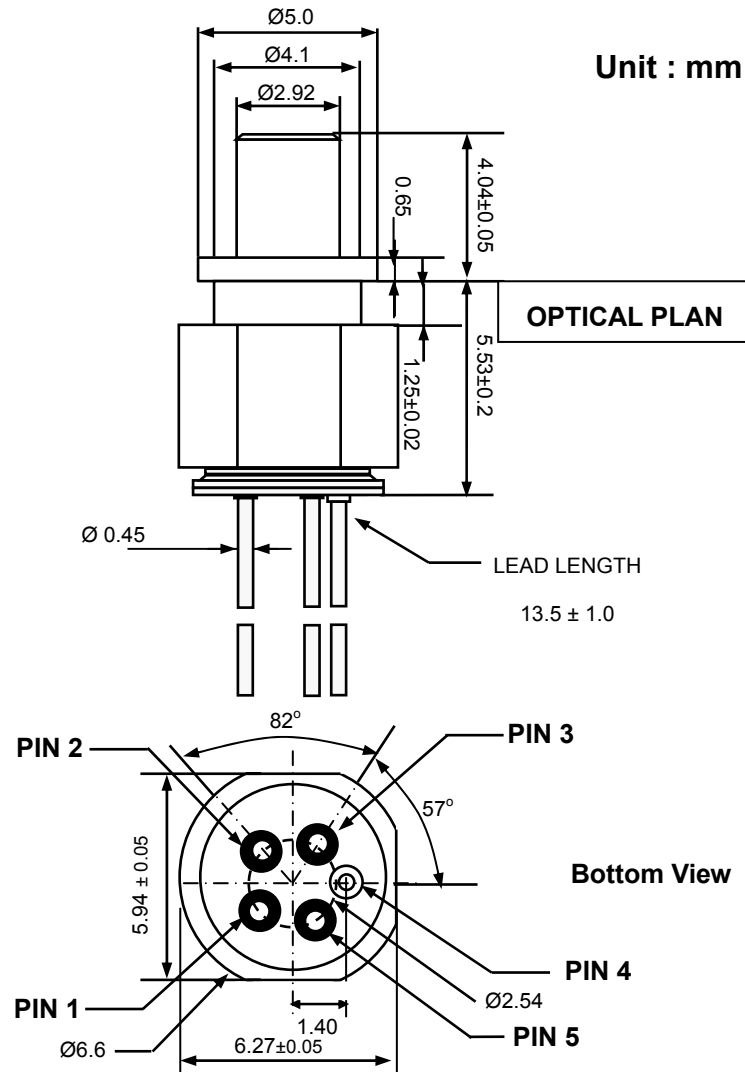


Absolute Maximum Ratings

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 5.0 V
Incident Optical Power	0 dBm average, 4 dBm Peak

Dimensions

Unit : mm



PIN OUT

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

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	5.5	V	
Supply Current	I_{CC}		26	50	mA	
Differential Responsivity	R_D	900	1500	2200	V/W	$R_{load} = 100 \text{ ohm}$, $P = -15 \text{ dBm}$, 850 nm
Wavelength	λ	760	850	860	nm	
Optical Overload	P_{Max}	0			dBm	
Maximum Differential Output Voltage	V_O	185	250	415	mV _{p-p}	$P = 0 \text{ dBm}$, 850 nm
Differential Transimpedance		2260	2800	3400	Ohm	
Small signal Bandwidth	BW	750	920	1100	MHz	
Low Frequency Cut off	LF		44		KHz	
Single-ended Output Impedance	RS	48	50	52	Ohm	
Sensitivity	S	-21	-23		dBm	BER=1E10 ⁻¹² , PRBS 2 ⁷ -1, 850 nm
Rise/Fall Time	t_R/t_F		250	400	ps	20%~80%
PD Bias Voltage	V_{PD}	$V_{CC} - 1$	V_{CC}	$V_{CC} + 0.5$	V	
Monitor Current Slope vs P_{IN}	I_{MON}	0.45	0.5		A/W	
Monitor Current Offset	I_{OFFSET}			10	nA	$P=0\text{mW}$

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