

**Features**

- : GaAs PIN PD LC ROSA
- : Multi rate capable up to 2.5 Gbps
- : Packaged with preamplifier
- : VPD (Separated PD bias pin)
- Other configurations available on request

**Description**



**Applications**

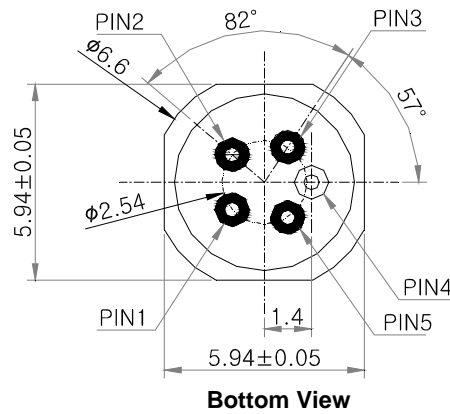
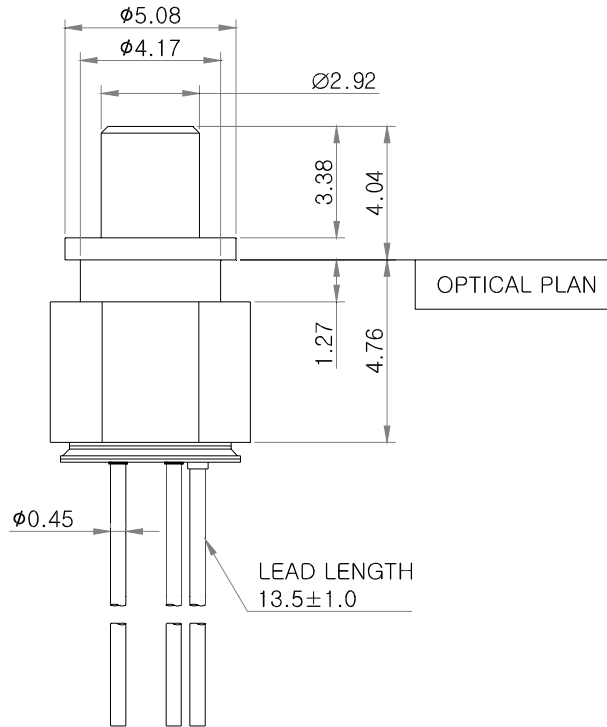
- : High speed Data Communications
- : Gigabit Ethernet
- : Fiber Channel

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

Dimensions

Unit :mm



Bottom View

PIN OUT

RP85-LCT2N-V	
Number	Function
1	V <sub>CC</sub>
2	V <sub>PD</sub>
3	V <sub>OUT-</sub>
4	GND
5	V <sub>OUT+</sub>



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	$I_{CC}$	20	25	32	mA	
Sensitivity	S	-20	-23		dBm	BER=1E10 <sup>-12</sup> , PRBS=2 <sup>7</sup> -1 at 2.5Gbps
Optical Overload	OL		3	6	dBm	
Differential Output Voltage	$V_{o,sat,diff}$		210	270	mV <sub>pp</sub>	$P_{ave}=-20dBm, \lambda=850nm$
3dB Bandwidth	$f_{h,-3dB}$	1180	1475	1880	MHz	$P_{ave}=-20dBm, \lambda=850nm$
Low Frequency Cutoff	LF	50	70	115	KHz	
Output Resistance	$R_o$		50		$\Omega$	
PD Bias Voltage	$V_{PD}$	1.8	2.5	2.9	V	
Monitor Current Slope vs $P_{IN}$	$I_{MON}$	0.45	0.5		A/W	

Note

\* 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