

Features
: GaAs PIN PD LC- ROSA
: Data rates up to 10 Gbps
: High reliability PIN PD & TIA
: RSSI (Received Signal Strength Indicator)
: Optional flex or lead type
: LC/SC type housing available



Applications
: High speed Data Communications
: Fiber Channel
: 10G Gigabit Ethernet

Absolute Maximum Ratings	
Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	-40 to 85 °C
Lead Solder Temperature	260 °C, 10 sec
Flex Attach Temperature	370 °C, 10 sec
Power Supply Voltage	-0.3 to 4.0V
Incident Optical Power	+5dBm

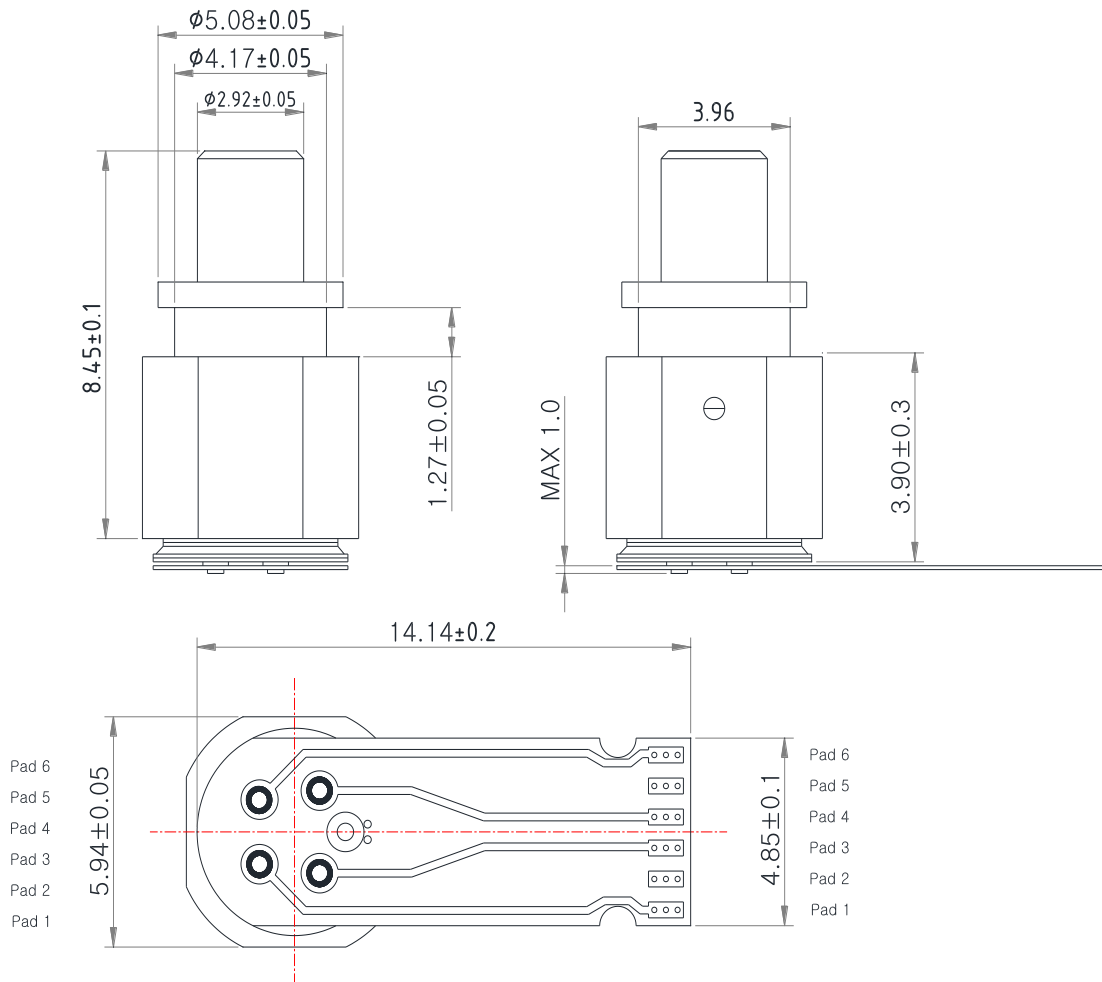
NOTICE
 Conditions exceeding those listed may cause permanent damage to the device. Devices subjected to conditions beyond the limits specified for extended periods of time may adversely affect reliability

Part Number :	Description :
RP85-LCT2HA-FI-Os	GaAs PIN TIA, Plastic LC-ROSA, 10Gbps, with flex, RSSI
RP85-LCT2HA-LI-Os	GaAs PIN TIA, Plastic LC-ROSA, 10Gbps, without flex, RSSI

RP85-LCT2HA-FI-Os

Dimensions

Unit :mm



Bottom View

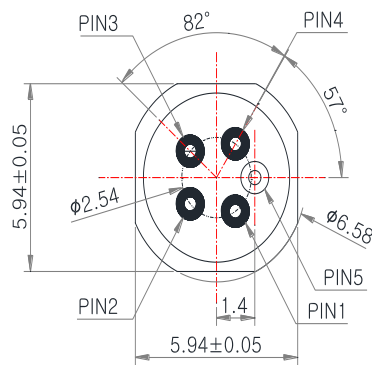
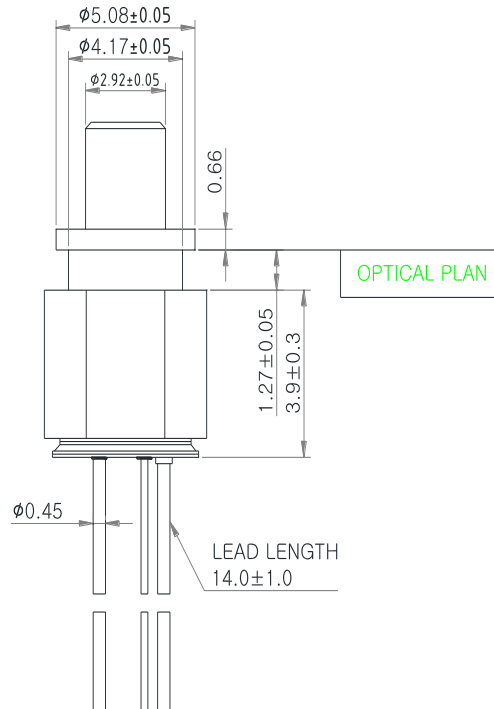
PIN OUT

RP85-LCT2HA-FI-Os	
Number	Function
1	V _{CC}
2	Case
3	V _{OUT+}
4	V _{OUT-}
5	Case
6	RSSI

RP85-LCT2HA-LI-Os

Dimensions

Unit :mm



Bottom View

RP85-LCT2HA-LI-Os	
Number	Function
1	V _{OUT+}
2	V _{CC}
3	RSSI
4	V _{OUT-}
5	GND



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

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Supply Voltage	V _{CC}	3.0	3.3	3.5	V	
Supply Current	I _{CC}		28		mA	
Sensitivity	S	-11	-13		dBm	BER=1E10 ⁻¹² PRBS=2 ³¹ -1 at 10.3125Gbps
Optical Overload	OL	1.5			dBm	
Differential Saturated Output Swing	V _{out,diff}	280	300	340	mV _{p-p}	
3dB Bandwidth	f _{h,-3dB}		12		GHz	P _{ave} =-12dBm,λ=850nm
Low Frequency Cutoff	LF		14	30	KHz	
Wavelength responsivity	λ	830	850	860	nm	
Rise/Fall Time	t _R /t _F			50	ps	P _{ave} =-12dBm,λ=850nm
Output Resistance	R _o	40	50	60	Ω	
Monitor Current Slope vs I _{IN}	I _{MON-P}		1.0			
Monitor Current Offset	I _{OFFSET}			100	nA	no photo current
Monitor Current linearity range	I _{RANGE}			1600	μA	

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