No.6, Hejiang Rd., Jhongli City ,
Taoyuan County 320,Taiwan.
Tel: +886-3-452-5188
Fax: +886-3-462-9588
www.luxnetcorp.com.tw

850nm 25Gbps PIN-TIA
(Preliminary)

L-TR-IM00-xx Series

TYPE NAME: L-TR-IM00-03

Product Description:

The LuxNet L-TR-IM00-x is designed for high-speed, high–performance 25G Ethernet applications. This device integrates our high-speed 850nm PIN detector with a 25G trans-impedance amplifier (TIA) and capacitors into a TO-46 5pin header with cap window. The PIN-TIA assembly can be integrated with a fiber receptacle housing to receive light from fiber through a receptacle into the PIN detector with high coupling efficiency

Product Specifications:

Absolute Maximum Ratings (T = 25℃):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	Top	℃	-40	85	Case Temp.
Storage Temperature	Tstg	℃	-40	85	
TIA supply voltage	Vcc	V		4	Tc = 25℃
Solder Reflow Temp.	Tsrt	℃		270	10sec Max.

Electro-Optical Characteristics (Tc = 25℃, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Power Supply Voltage	Vcc	V	2.97	3.3	3.63	
Supply Current	Icc	mA		16	30	Vcc=3.3V, no light
Wavelength	λ	nm		850		
Data Rate	DR	Gb/s		25.78		
Responsivity	Res	A/W	0.45			
Sensitivity	Sen	dBm			-12.0	ER=4.0dB, PRBS 2^31-1 , BER=5E-5
Overload	Pmax	dBm	3.0			ER=4.0dB, PRBS 2^31-1 , BER=5E-5,
Output impedance	Rout	Ω		50		Singe Ended

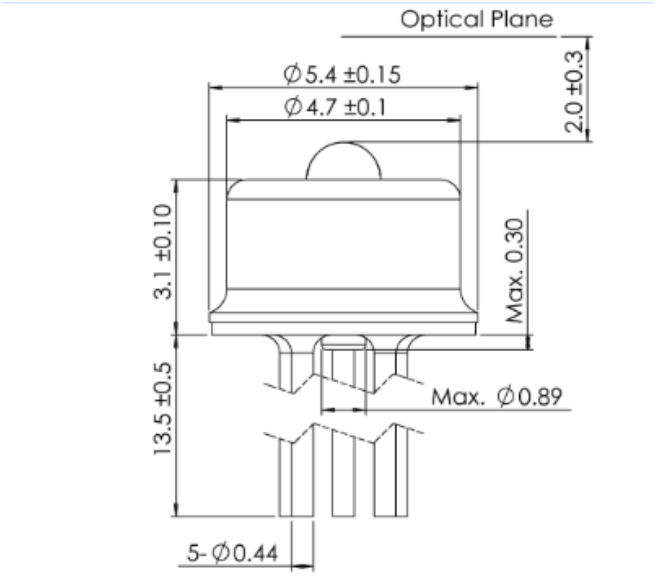
* Specifications are subject to change without notice.
* Screening per customer-specified reject limits is available.

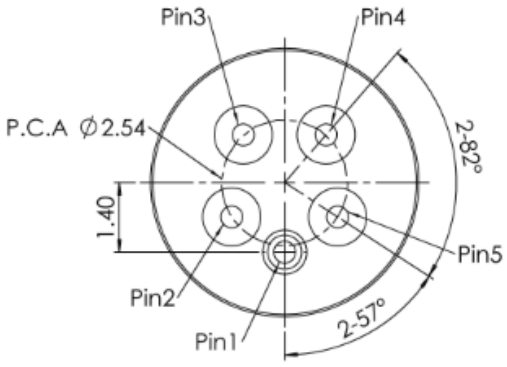
No.6, Hejiang Rd., Jhongli City ,
Taoyuan County 320,Taiwan.
Tel: +886-3-452-5188
Fax: +886-3-462-9588
www.luxnetcorp.com.tw

L-TR-IM00-03

Dimensions: (mm)

All dimensions are nominal





Flex board PINOUT (Bottom View)

PIN NUMBER	FUNCTION
1	GND
2	D+
3	Vcc
4	RSSI
5	D-