

850nm 25Gbps LC-ROSA (Preliminary)

L-AR-IM00-xx Series

TYPE NAME: L-AR-IM00-03

Product Description:

The LuxNet 850nm 25Gbps LC-ROSA (Receiver Optical Sub-Assembly) is designed for 25Gbps data communication performance requirements through multimode optical fiber. This device integrates with a 25G high speed GaAs PIN chip and a trans-impedance amplifier (TIA) into a TO-46 header and LC Plastic receptacle. A flex provides interconnects from header leads to transceiver PCB with controlled impedance.

Product Specifications:

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T _{op}	°C	-40	85	Case Temp.
Storage Temperature	T _{stg}	°C	-40	85	
TIA supply voltage	V _{cc}	V		4	T _c = 25°C
Solder Reflow Temp.	T _{srt}	°C		270	10sec Max.

Electro-Optical Characteristics (T_c = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Power Supply Voltage	V _{cc}	V	2.97	3.3	3.63	
Supply Current	I _{cc}	mA		16	30	V _{cc} =3.3V, no light
Wavelength	λ	nm		850		
Data Rate	DR	Gb/s		25.78		
Sensitivity	Sen	dBm			-12.0	λ= 850nm, ER=4.0dB, PRBS 2 ³¹ -1, BER=5E-5
Overload	P _{max}	dBm	3.0			ER=4.0dB, PRBS 2 ³¹ -1, BER=5E-5,
Output impedance	R _{out}	Ω		50		Singe Ended

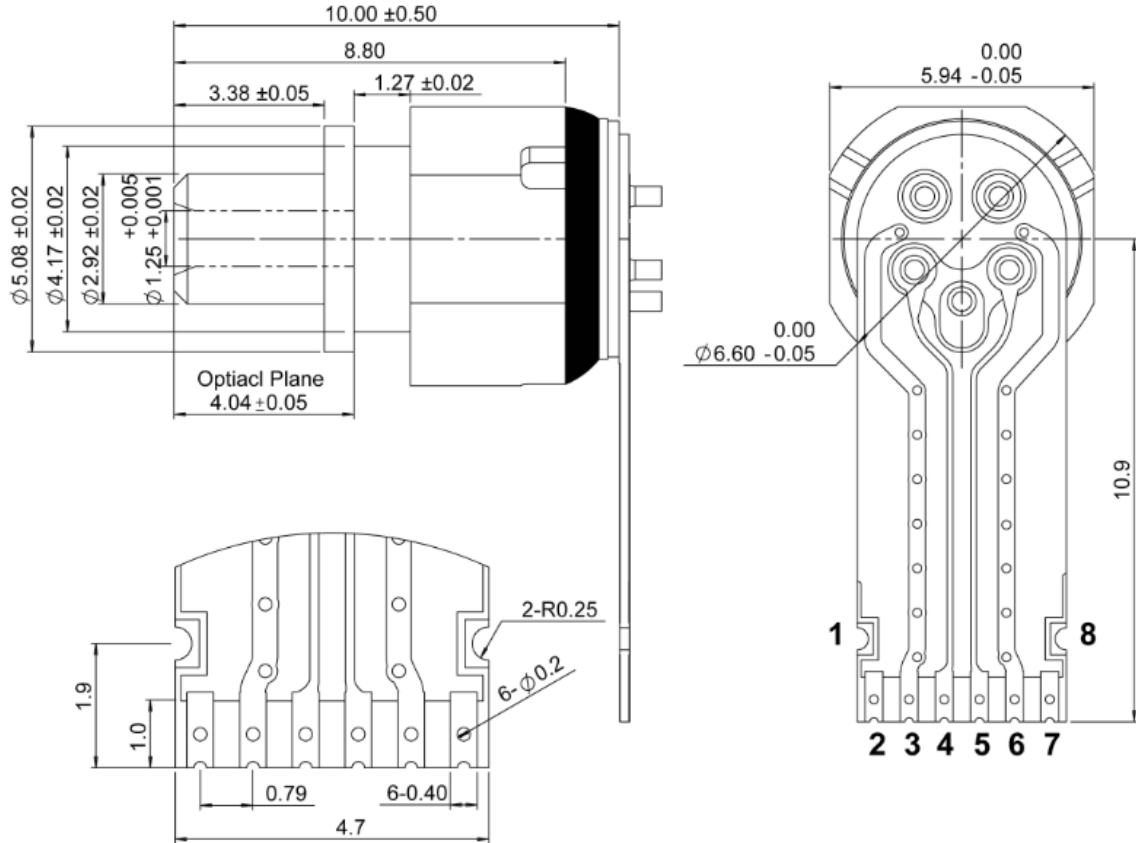
* Specifications are subject to change without notice.

* Screening per customer-specified reject limits is available.

L-AR-IM00-03

Dimensions: (mm)

All dimensions are nominal



Flex board PINOUT (Bottom View)

NUMBER	FUNCTION
1	GND
2	VCC
3	GND
4	D+
5	D-
6	GND
7	RSSI
8	GND

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