

1310/1550nm 622Mbps 4pin LC-ROSA

DI7P-906x-x Series

TYPE NAME: DI7P-906B-7_3

Product Description:

The LuxNet DI7P-906x-x ROSA (Receiver Optical Sub-Assembly) is designed for a high-speed, high-performance data communication and telecommunication applications. This device integrates our high-speed 1310 nm PIN detector with a STM4/OC12 trans-impedance amplifier (TIA) and capacitors with a TO-46 header, cap window, and optical port. The product is designed for OC-12 long distance optical communication systems. The LC type optical port has a fiber connector that transmits light through an LC receptacle into the PIN detector with high coupling efficiency.

Product Specifications:

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T _{op}	°C	-40	85	
Storage Temperature	T _{stg}	°C	-40	100	
Solder Reflow Temperature	T _s	°C		260	10 seconds max.
Power Supply Voltage	V _p	V	-0.5	6.0	
Optical Power	P _{in}	dBm		5	

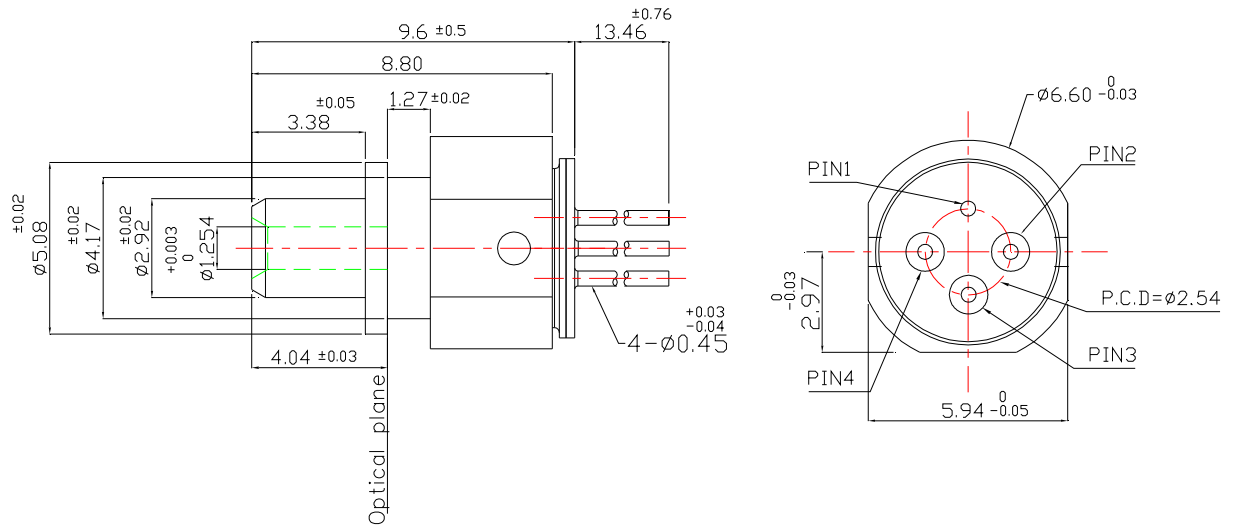
Electro-Optical Characteristics (T = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Supply Voltage	V _{cc}	V	3.0	5.0	5.5	
Supply Current	I _{cc}	mA	20	28	42	V _{cc} = 3.3V
			23	28	45	V _{cc} = 5.0V
Sensitivity	S	dBm		-32	-30	λ=1310 nm 2 ²³ - 1PRBS, BER=10 ⁻¹⁰ ER= 9~10dB
Wavelength	λ _p	nm	1100	1310	1650	
Rise/Fall Time	τ _r /τ _f	ns	450/450	550/550	700/700	V _{cc} = 3.3V, 20%-80%
Dark Current	I _d	nA			20	V _i = -3.3V
Overload	P _{load}	dBm	-3			2 ²³ - 1PRBS, BER=10 ⁻¹⁰ ER= 9~10dB

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

DI7P-906B-7_3 (LC-ROSA)

Dimensions: (mm)
All dimensions are nominal



PINOUT

DI7P-906B-7_3	
Number	Function
1	Gnd
2	Inverted Output (D*)
3	Vcc
4	Non-Inverted Output (D+)

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