

## 850nm 10Gbps 5Pin LC-ROSA with Flex board

### MG5F-907x-Rx Series

**TYPE NAME: MG5F-907J-RI2**

#### Product Description:

The LuxNet 850nm 10Gbps LC-ROSA (Receiver Optical Sub-Assembly) is designed for low cost 10Gbps data communication performance requirements through multimode optical fiber. This device integrates with a 10G high speed GaAs PIN chip and a trans-impedance amplifier (TIA) into a TO-46 header and LC plastic Circle receptacle. A flex provides interconnects from header leads to transceiver PCB with controlled impedance. This product is designed for the applications include 10Gbps Ethernet.

#### Product Specifications:

##### Absolute Maximum Ratings (T = 25°C):

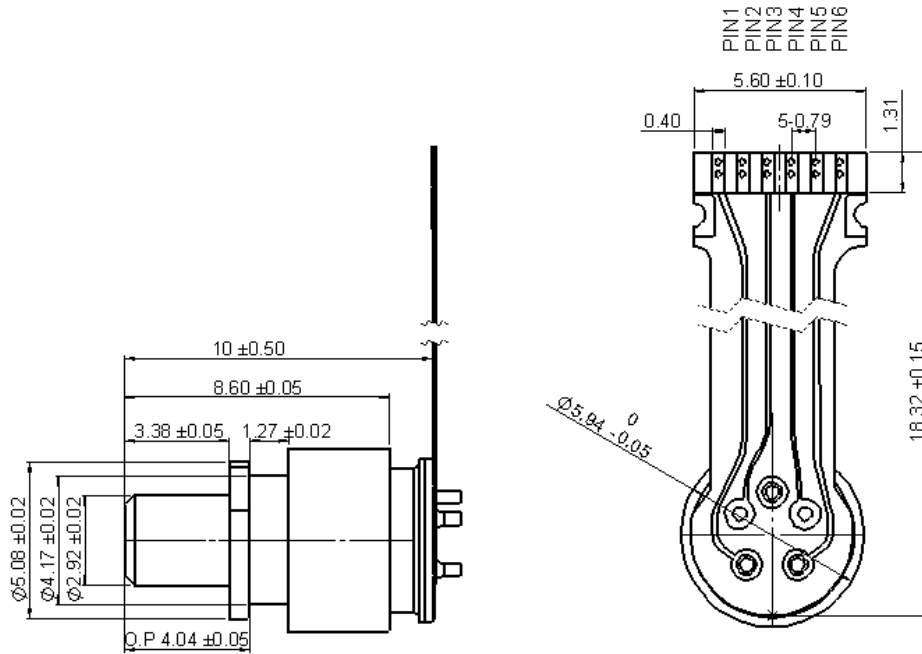
Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T <sub>op</sub>	°C	-40	85	
Storage Temperature	T <sub>stg</sub>	°C	-40	85	
Solder Reflow Temperature	T <sub>s</sub>	°C		260	10 seconds max.
Power Supply Voltage	V <sub>P</sub>	V	-0.5	5	
Optical Power	P <sub>in</sub>	dBm		5	

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

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Supply Voltage	V	V	2.97	3.3	3.63	
Supply Current	I <sub>cc</sub>	mA		32	47	V <sub>cc</sub> =3.3V
Responsivity	R	A/W	0.45	0.50		λ = 850nm
Sensitivity	S	dBm			-13	λ=850nm@10.3125G PRBS=2 <sup>31</sup> -1, BER=10 <sup>-12</sup> , ER=4.5~5.0dB Fiber@62.5mm
Wavelength	λ	nm	840	850	860	
Rise/Fall Time	T <sub>R</sub> /T <sub>F</sub>	ps		40	50	(20% -80%)

## MG5F-907J-RI2(LC-ROSA)

**Dimensions:** (mm)  
 All dimensions are nominal



Flex board PINOUT(Bottom View)

MG5F-907J-RI2	
Number	Function
1	RSSI(Current Source)
2	GND
3	Inverted output(D*)
4	Non-Inverted output(D+)
5	GND
6	VCC

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