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

MG5F-907x-Rx Series

TYPE NAME: MG5F-907J-RI0

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 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_{op}	°C	-40	85	
Storage Temperature	T_{stg}	°C	-40	85	
Solder Reflow Temperature	T_s	°C		260	10 seconds max.
Power Supply Voltage	V_P	V	-0.5	5	
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	V	2.97	3.3	3.63	
Supply Current	I_{cc}	mA		32	47	Vcc=3.3V
Responsivity	R	A/W	0.45	0.50		λ =850nm
Sensitivity	S	dBm			-13	λ=850nm@10.3125G PRBS=2^{31}-1,BER=$10^{-12,}$ ER=4.5~5.0dB Fiber@62.5mm
Wavelength	λ	nm	840	850	860	
Rise/Fall Time	T_R/T_F	ps		40	50	(20%-80%)

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

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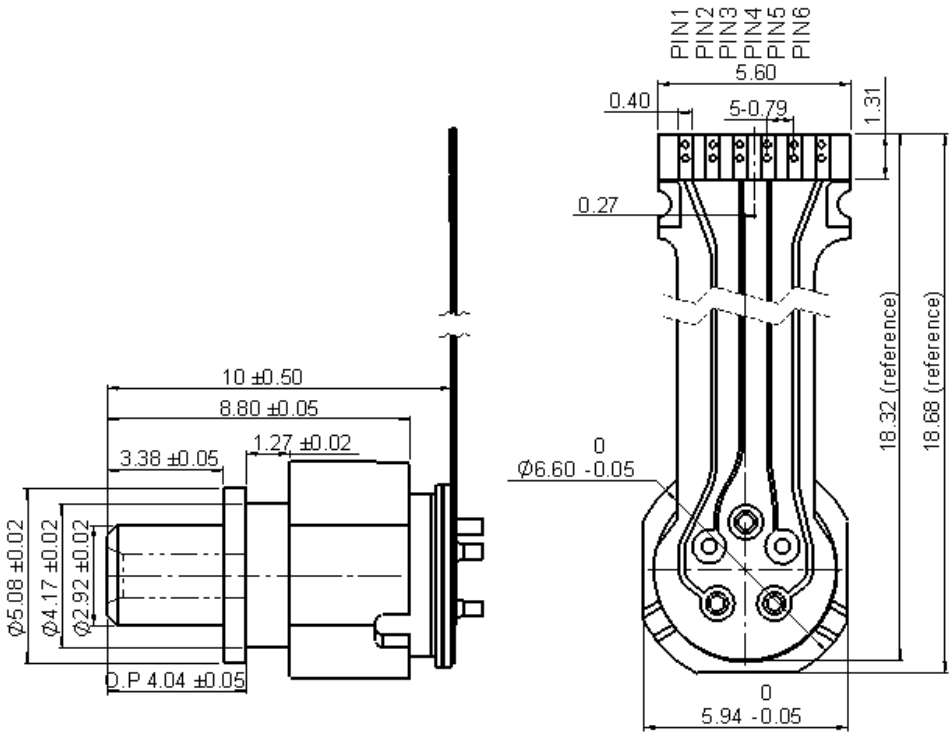
MG5F-907J-RI0(LC-ROSA)

Dimensions: (mm)
All dimensions are nominal



Flex board PINOUT(Bottom View)

	MG5F-907J-RI0
Number	Function
1	RSSI(Current Source)
2	GND
3	Inverted output(D*)
4	Non-Inverted output(D+)
5	GND
6	VCC

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