

1310nm 6Gb/s LC ROSA W/ Flex board

MIHG-903x-Kx Series

TYPE NAME: MIHG-903E-KS

Product Description:

The Luxnet 1310/1550nm 6G 5pin LC-ROSA (Receiver Optical Sub Assembly) is designed for 6Gbps fiber optic data communication. The application requirements are used to perform through single mode optical fiber. This device integrates with 6g high speed InGaAs PIN chip and trans-impedance amplifier (TIA). Then put in to a TO-46 cap, 5-pin header and LC receptacle. A flex board provides to interconnect from header, which leads to transceiver PCB with control impedance. Moreover, the LC type optical port transmits light into the PIN detector with high efficiency coupling.

Product Specifications:

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Ambient 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	

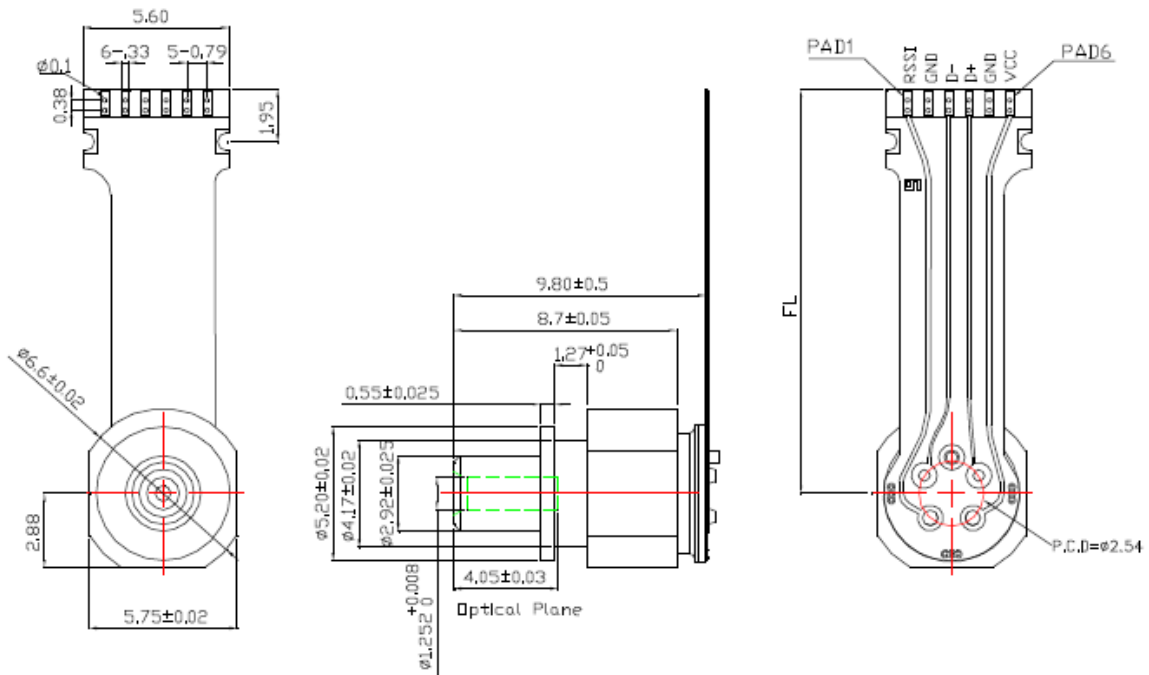
Electro-Optical Characteristics (T = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Supply Voltage	V _{cc}	Volts	2.97	3.3	3.63	
Supply Current	I _{cc}	mA		27	34	V _{cc} =3.3V,
Sensitivity	S	dBm			-16	λ=1310nm PRBS=2 ⁷ -1, BER=10 ⁻¹² , ER=5.0dB Speed=10.3125G
Wavelength	λ	nm	1260	1310	1620	
Rise/Fall Time	T _R /T _F	ps		40	50	V _{cc} =3.3V (20%-80%)
Overload Power	P _{load}	dBm	0.5			λ=1310nm, PRBS=2 ³¹ -1, BER10 ⁻¹²
Optical Return Loss	ORL	dB			-14	λ=1310&1550nm

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

MIHG-903E-Kx (LC-ROSA)
FPC P/N:RT760001

Dimensions: (mm)
All dimensions are nominal



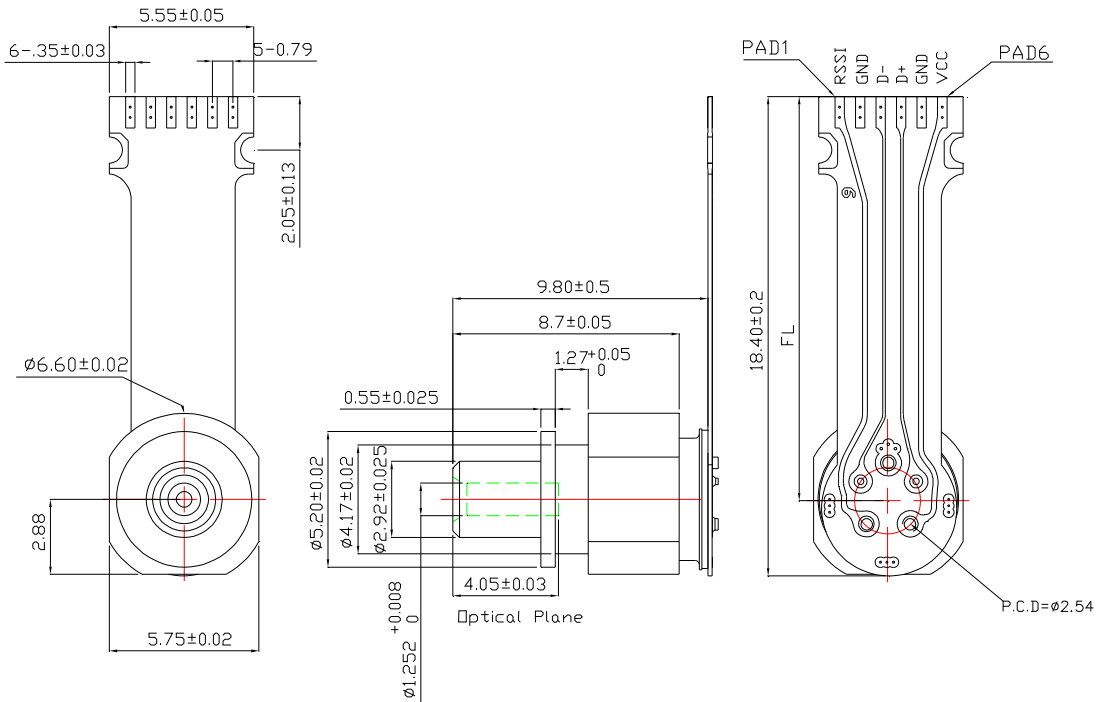
PINOUT

MIHG-903E-KS(FL:15.7mm)	
Number	Function
1	RSSI
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.

Dimensions: (mm)
All dimensions are nominal

MIHG-903E-Kx-01 (LC-ROSA)
FPC P/N:RT760020



PINOUT

MIHG-903E-KS(FL:15.51mm)	
Number	Function
1	RSSI
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.