

10Gb/s 1310nm ROSA

MI5E-903x-Kx Series

TYPE NAME: MI5E-903C-KS

Product Description:

The LuxNet 1310/1550nm 10G LC/SC-ROSA (Receiver Optical Sub-Assembly) is designed for 10Gbps data communication performance requirements through single mode optical fiber. This device integrates with 10G high speed InGaAs PIN chip and trans-impedance amplifier (TIA) into a TO-46 cap, 5-pin header and LC receptacle. A flex provides interconnects from header leads to transceiver PCB with controlled impedance. This product is designed for the applications include 10G Ethernet, and SONET/SDH

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	
Lead Solder Temperature	T _s	°C		260	10 Seconds Max
Power Supply Voltage	V _p	V		4	
Optical Power	P _{in}	dBm		5	
Pin Reverse Voltage	V _{pin}	V		20	

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

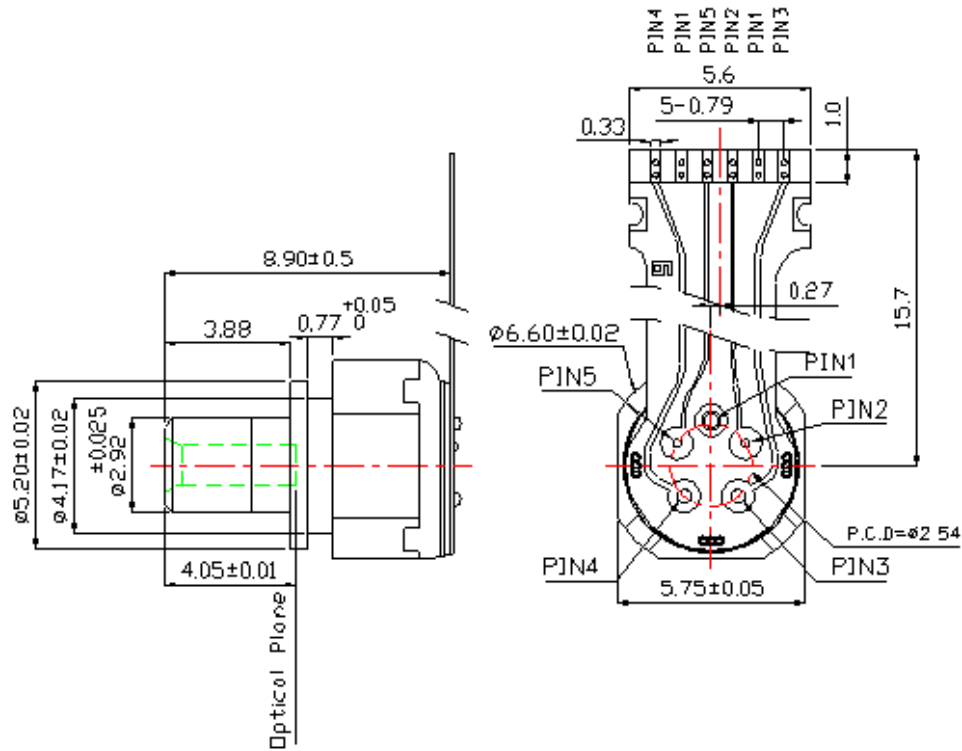
Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Supply Voltage	V _{cc}	Volts	2.97	3.3	3.63	
Supply Current	I _{cc}	mA	34	45	62	V _{cc} =3.3V
Differential Output Voltage	V _{out}	mV		250		
Responsivity	R	A/W	0.85			λ = 1310nm
Sensitivity	S	dBm			-17	λ = 1310nm PRBS=2 ³¹ -1, BER=10 ⁻¹² , ER=5.0dB
Wavelength	λ	nm	1260	1310	1620	
Rise/Fall Time	T _R /T _F	ps		40	50	(20%-80%)
Overload Power	P _{load}	dBm	0			
Power Supply Rejection Ratio	PSRR	dB		25		
Optical Return Loss	ORL	dB	-14			
RSSI slope		mA/mA	0.9	1.0	1.1	

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

MI5E-903C-KS (LC-ROSA)

Dimensions: (mm)

All dimensions are nominal



MI5E-903C-KS	
Pin Number	Function
1	GND
2	Non-Inverted output(D+)
3	VCC
4	Current source(RSSI)
5	Inverted output(D*)

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