NMOP-10120XX-R

10Gbps GaAs PIN PD LC-ROSA with Preamp

Anwendungen / Application

Features

- GaAs PIN PD LC- ROSA
- Data rates up to 10 Gbps
- High reliability PIN PD & TIA
- RSSI (Received Signal Strength Indicator)
- Optional flex or lead type
- LC/SC type housing available

Applications

- High speed Data Communications
- 10G Gigabit Ethernet
- Fiber Channel

Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-40 to 100° C
Operating Temperature	-40 to 85° C
Lead Solder Temperature	260° C , 10 sec
Flex Attach Temperature	370° C , 10 sec
Power Supply Voltage	-0.3 to 4.0V
Incident Optical Power	+5dBm

NOTICE: Conditions exceeding those listed may cause permanent damage to the device. Devices subjected to conditions beyond the limits

Part Number	Description
NMOP-10120FI-R	GaAs PIN TIA, Plastic LC-ROSA, 10Gbps, with flex, RSSI
NMOP-10120LI-R	GaAs PIN TIA, Plastic LC-ROSA, 10Gbps, without flex, RSSI

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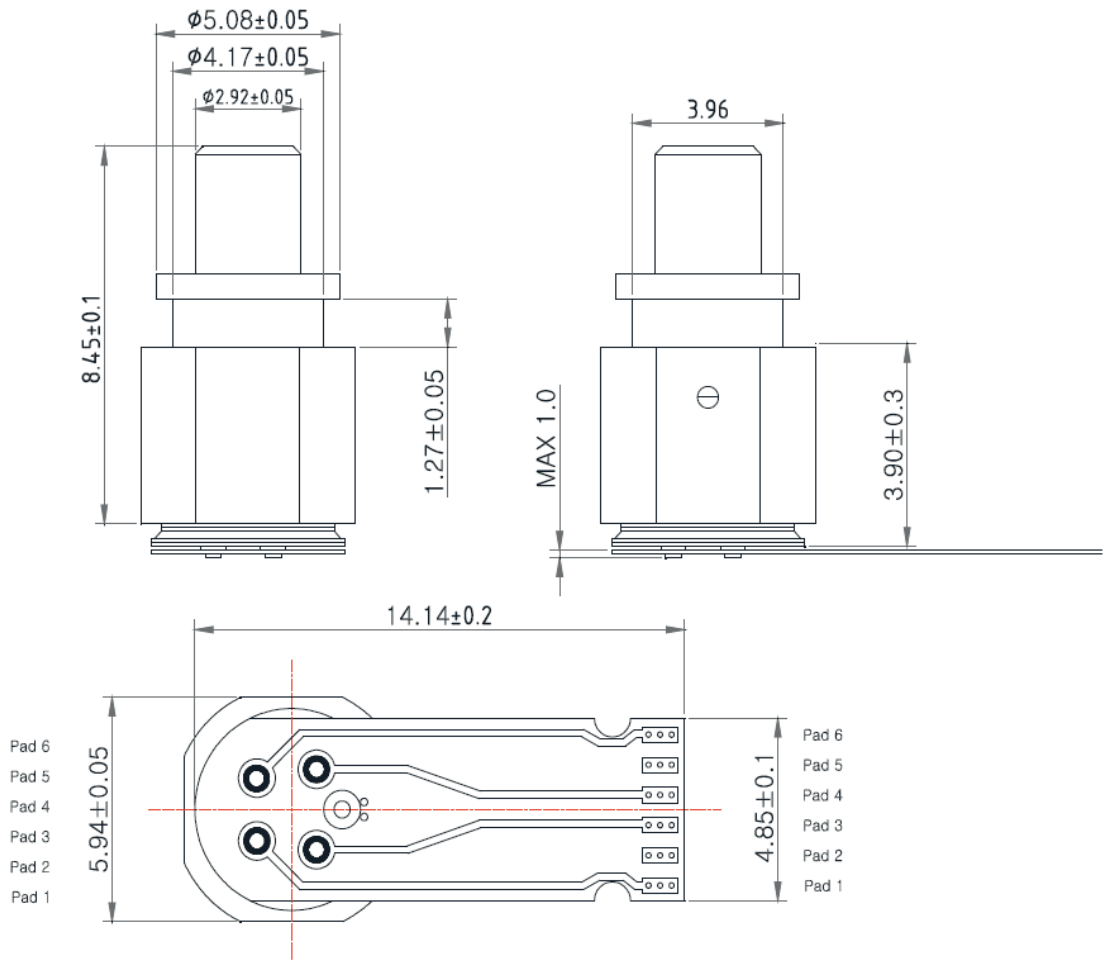
Dimensions

Unit: mm



PIN OUT

NMOP-10120FI-R	
Number	Function
1	V_{CC}
2	Case
3	V_{OUT+}
4	V_{OUT-}
5	Case
6	RSSI

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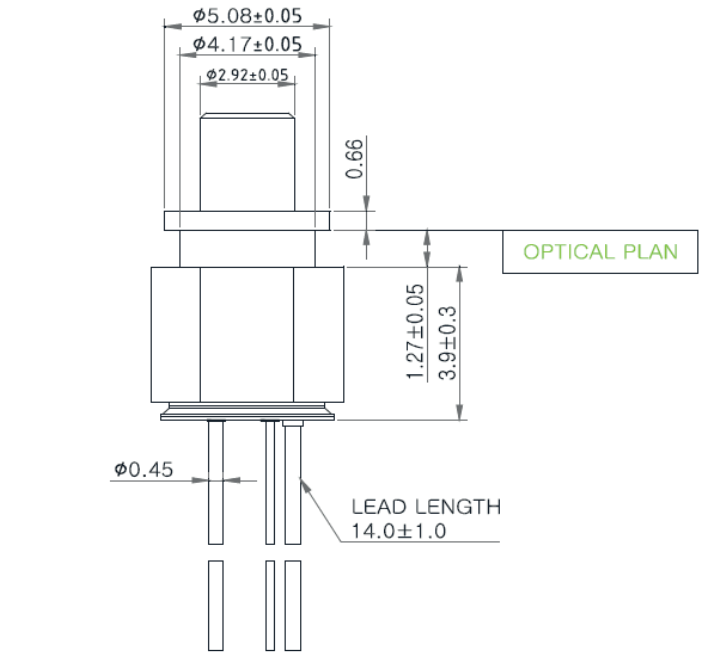
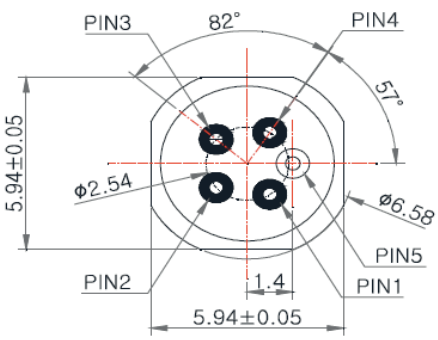
Dimensions

Unit: mm





Bottom View

PIN OUT

NMOP-10120LI-R	
Number	Function
1	V_{OUT+}
2	V_{CC}
3	RSSI
4	V_{OUT-}
5	GND

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Electro-Optics Characteristics (V_{CC}=3.3V, T_a=25°C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Supply Voltage	V_{cc}	3.0	3.3	3.5	V	
Supply Current	I_{cc}		32		mA	
Sensitivity	S	-11	-13		dBm	BER=1E10^{-12} PRBS=2^{31}-1 at 10.3125Gbps
Optical Overload	OL		5		dBm	
Differential Output Swing	$V_{out-,diff}$		200		mV_{p-p}	
3dB Bandwidth	$f_{h,-3dB}$		11		GHz	P_{ave}=-12dBm, λ = 850nm
Low Frequency Cutoff	LF		0.5		KHz	
Wavelength responsivity	λ	830	850	860	nm	
Rise/Fall Time	t_R/t_F			50	ps	P_{ave}=- 12dBm, λ = 850nm
Output Resistance	R_o	40	50	60	Ω	
Monitor Current Slope vs IIN	I_{MON-P}		1.0			
Monitor Current Offset	I_{OFFSET}		0		nA	no photo current

Notes

* These specifications are subject to change without notice

NOTICE	The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

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