

OPNF85RP-LCT3N

1.25/2.5Gbps GaAs PIN PD LC-ROSA with Preamp

Anwendungen / Application

Features

- GaAs PIN PD LC ROSA
- Multi-rate capable up to 2.5 Gbps
- Packaged with preamplifier
- Other configurations available on request



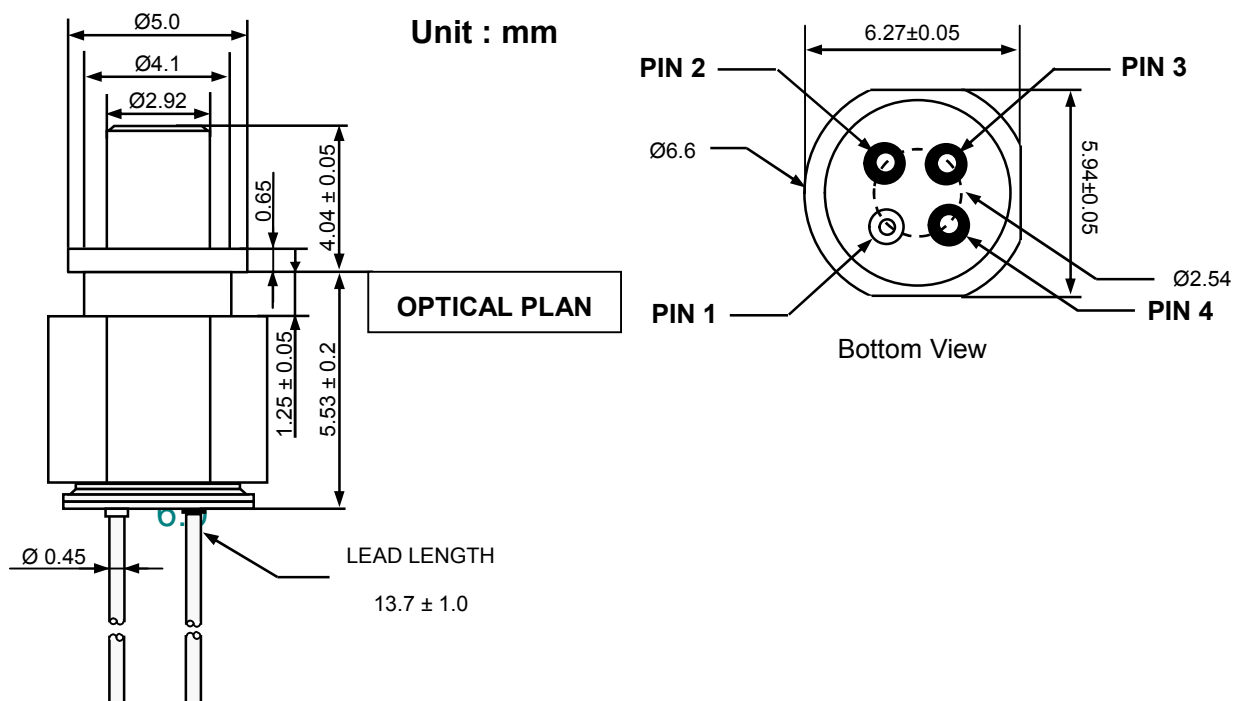
Applications

- High speed Data Communications
- 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
Power Supply Voltage	0 to 4.0 V
Incident Optical Power	0 dBm average, 4 dBm Peak

Dimensions



PIN OUT

OPNF85RP-LCT3N	
Number	Function
1	GND
2	Vout +
3	V _{cc}
4	Vout -

Electro-Optics Characteristics (Ta=25° C unless otherwise stated)

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Wavelength Responsivity	λ	770	850	860	nm	
Supply Voltage	V_{CC}	3.0	3.3	3.6	V	
Supply Current	I_{CC}	13	17	23	mA	
Sensitivity	S	-20	-22		dBm	BER=1x10 ⁻¹² PRBS=2 ³¹ -1 at 2.5Gbps
Differential Output Voltage	$V_{o,diff}$	140	200	310	mV _{pp}	
3dB Bandwidth	$f_{h,-3dB}$		1.8		GHz	P _{ave} =-12dBm, λ =850nm,
Low Frequency Cutoff	$f_{l,-3dB}$		40	70	KHz	
Rise/Fall Time	t_R/t_F		130		ps	P _{ave} =-12dBm, λ =850nm,
Output Resistance	R_o	40	50	60	Ω	Single-ended

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