

LC-ROSA1YW13YEOxx-x

Technical Specification of 25G LC-ROSA PIN-TIA

Features

- ◆ High-speed InGaAs/InP PIN
- ◆ High-performance trans-impedance amplifier (TIA)
- ◆ High sensitivity
- ◆ Photocurrent monitoring available
- ◆ Operating Case temperature: -40°C to +85°C
- ◆ RoHS Compliant Products Available

Applications

- ◆ SFP28
- ◆ High speed Data Communication

Absolute maximum ratings

Parameter	Symbol	Min	Max	Unit
Operating Temperature	Top	-40	85	°C
Storage Temperature	Tstg	-40	85	°C
Lead Solder Temperature	Tlead	—	260	°C
PIN Reverse Voltage	Vpin	—	20	V
Power Supply Voltage	Vp	-0.4	4	V

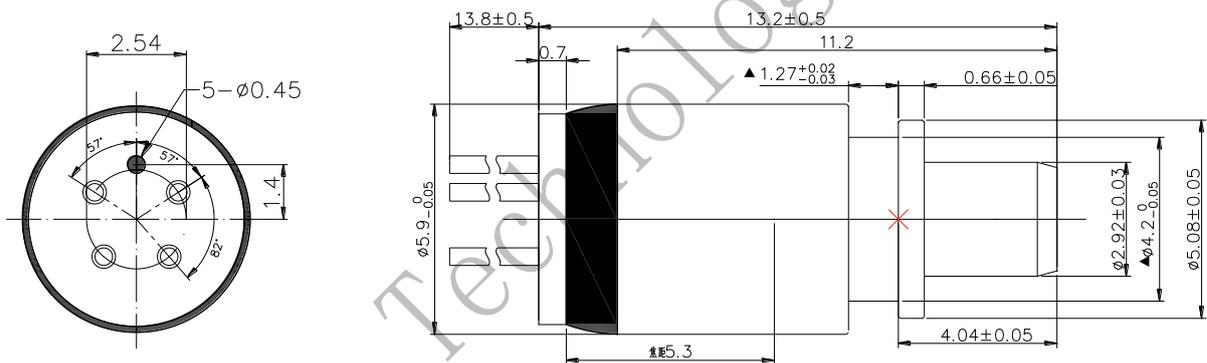
Electrical/Optical characteristics

(Tc=+25°C, Vcc=3.3V)

Parameter	Symbol	Min	Typ.	Max	Unit	Test conditions
Supply Voltage	Vcc	2.97	3.3	3.63	V	—
Supply Current	Icc	—	31	45	mA	Vcc=3.3V
-3dB Bandwidth	BW	18	20	—	GHz	—
Data rate	DR	—	25.78	—	Gbps	Gbps
Responsivity	R	0.7	—	—	A/W	$\lambda=1310\text{nm}$, $\lambda=-20\text{dBm}$
Wavelength	λ	1295	—	1325	nm	—
Overload Power	Pload	—	2.5	—	dBm	—
Optical return loss ^{*Note1}	ORL	—	—	-26	dB	—
Dark current	ID	—	—	100	'nA'	—

Note1: This data is test by stub ROSA

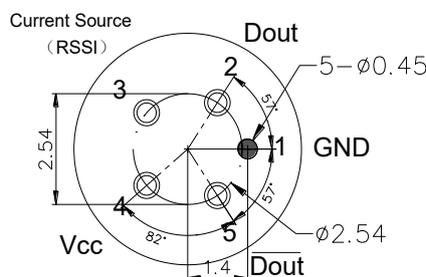
Package dimension ^{*Note2}



*Note2: Insulation is the TO-CAN and the metal pipe insulation.

Pin Assignment

TYPE: Y



PIN-TIA-pin-Y

Ordering Information

LC— ROSA1

A B C D E F G H

Order	Parameter	Detailed Description	
A	Insulation	Y= Insulation	
B	Date rate	W=25Gbps	
C	Wavelength	1=1295~1325nm	
D	Voltage	3=3.3V	
E	Pin Type	Y= PIN-TIA-pin-Y	
F	TO Type	EO=Eoptolink	
G	TIA Type	XX	
H	Solution	Blank= None	X=1-9

Precaution

- (1) The modules should be handled in the same manner as ordinary semiconductor devices to prevent the electro-static damages. For safe keeping and carrying, the modules should be packaged with ESD proof material. To assemble the modules on PCB, the workbench, the soldering iron and the human body should be grounded.
- (2) Please pay special attention to the atmosphere condition because the dew on the module may cause some electrical damages.
- (3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.

Obtaining Document

You can visit our website:

<http://www.eoptolink.com>

Or contact Eoptolink Technology Inc., Ltd. listed at the end of the documentation to get the latest documentation.

Revision History

Verision	Initiated	Reviewed	Approved	Revision History	Release Date
Va-1	Yinchun.zhao	James.liu	Vincent.yu	The initial	2020-11.10
Va-2	Yinchun.zhao	James.liu	Vincent.yu	Update to Operating Case temperature: -40°C to +85°C	2020-12.22

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Contact:

Add: IOT Industrial Park, Southwest Airport Economic Development Zone, Shuangliu County, Chengdu, Sichuan, China.

Tel: +86-28-67087999 ext.8081

Fax: +86-28-67087979

Postal: 610213

E-mail: sales@eoptolink.com

<http://www.eoptolink.com>