

T3EEOUI

The detector includes a 5 pin PIN-TIA plus AGC Pre-amplifier, supports 10Gbps long distance fiber communication application.

Features

- ◆ Differential Output
- ◆ Coaxial Package
- ◆ Single Power Supply Voltage +3.3V
- ◆ Plastic Insulation, High reliability and Long Operation life
- ◆ Wavelength from 1260nm to 1620nm
- ◆ Data Rate Up to 10Gbps
- ◆ Low Noise
- ◆ RoHS Compliant Products Available

Applications

- ◆ 10G SONET/SDH System
- ◆ 10G Fiber Channel System

Ordering Information (Standard version ^{*Note1})

Part No.	Wavelength(nm)	Bandwidth(GHz)	TIA supply voltage(V)	Pin Type
T3EEOUI	1260~1620	10	3.3	E

*Note1: For more ordering information, please refer the nomenclature and contact EPOTOLINK sales.

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	-0.5	3.8	V
Optical Power	Pin	—	5	dBm

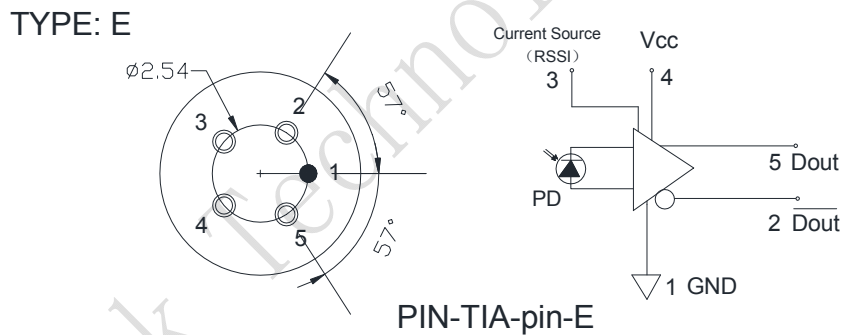
ELECTRICAL / OPTICAL CHARACTERISTICS

(Tc=+25°C, Vcc=3.3V, I=1310nm)

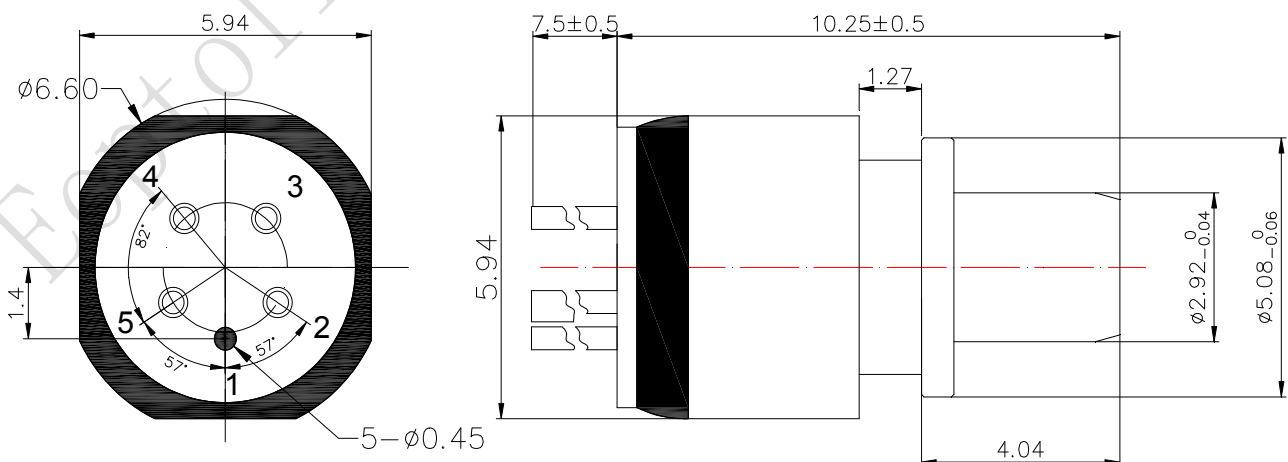
Parameter	Symbol	Test conditions	Min	Typ.	Max	Unit
Supply Voltage	Vcc	—	2.97	3.3	3.63	V
Supply Current	Icc	Vcc=3.3V	—	27	34	mA
Responsivity	Re	$\lambda=1310\text{nm}, V=-5\text{V}$	0.88	—	—	A/W
		$\lambda=1550\text{nm}, V=-5\text{V}$	0.9	—	—	
Wavelength	λ	—	1260	—	1620	nm
RSSI slope	—	—	0.9	1.0	1.1	mA/mA
Sensitivity*Note2	Sen	$\lambda=1310\text{nm}, \text{Speed}=10.3125\text{G}$ PRBS=2 ³¹ -1, BER=10 ⁻¹² , ER=5.0dB	—	-15	—	dBm
Overload Power	Pload	—	0.5	—	—	dBm
-3dB Bandwidth	BW	$\lambda=1310\text{nm}, V=-5\text{V}$	10	—	—	GHz

Note2: The Sensitivity Test At ROSA With Flex Board

Pin Assignment



Package dimension



Ordering Information

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A B C D E

Order	Parameter	Detailed Description
A	Data rate	T=10Gbps
B	Voltage	3=3.3V
C	Pin Type	E= pin-E
D	RX Chip Type	EO=Eoptolink
E	TIA Type	UI=UX2061

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	Kelly	The initial	2019-11-14
Va-2	Yinchun.zhao	James.liu	Kelly	Response is adjusted from maximum to minimum	2020-07-06
Va-3	Yinchun.zhao	James.liu	Kelly	Test conditions increased by 1550nm. Update power supply voltage, delete picture.	2020-10-16

Va-4	Kyra	Zore	Kelly	Update footer content,delete rdering information for “F” .	2020-12-03
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Notice:

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