

## 1310 nm 2.5Gbps 5pin PIN-TIA

### DI2E-806x-x series

#### TYPE NAME: DI2E-8063-K

#### Product Description:

The LuxNet DI2E-8063-x is designed for high speed, high performance data communication and telecommunication applications. This device integrates our high speed 1310 nm PIN detector with an STM16/OC48 trans-impedance amplifier (TIA), capacitors, and a TO-46 header with a cap window. The product is designed for OC-48 optical communication systems. The PIN-TIA assembly can be integrated with different types of ports engaged with a fiber connector to transmit the light from fiber through a receptacle into the PIN detector with high coupling efficiency.

#### Product Specifications:

Absolute Maximum Ratings (T = 25°C):

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T <sub>op</sub>	°C	-40	85	
Storage Temperature	T <sub>stg</sub>	°C	-40	100	
Solder Reflow Temperature	T <sub>s</sub>	°C		260	10 seconds max.
Power Supply Voltage	V <sub>p</sub>	V	-0.7	5.0	
Optical Power	P <sub>in</sub>	dBm		5	

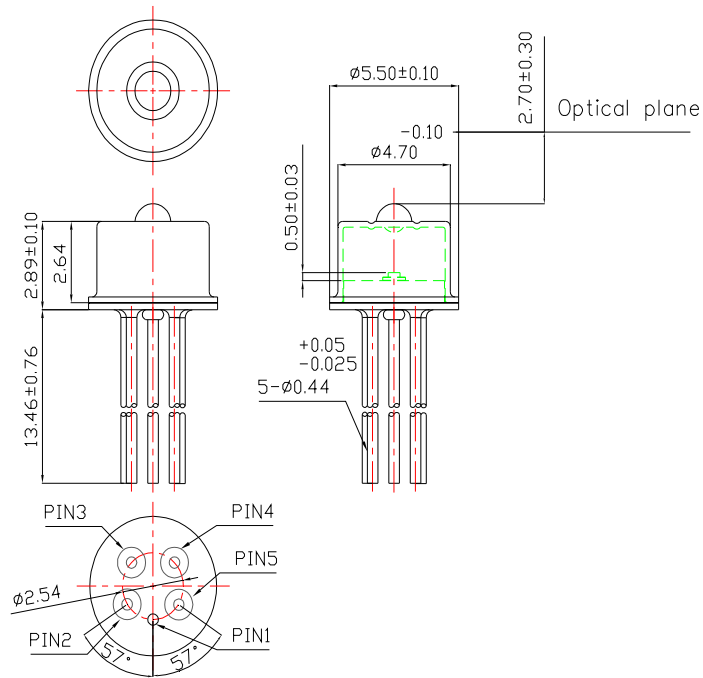
Electro-Optical Characteristics (T = 25°C, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Supply Voltage	V <sub>cc</sub>	V	3.0	3.3	3.6	
Supply Current	I <sub>cc</sub>	mA		44	59	V <sub>cc</sub> =3.3V
Sensitivity	S	dBm			-23	λ=1310nm, PRBS=2 <sup>23</sup> -1, BER=10 <sup>-10</sup> , ER=9~10dB
Wavelength	λ	nm	1100	1310	1650	
Rise/Fall Time	τ <sub>r</sub> /τ <sub>f</sub>	ps		150/150		(20%-80%)
Overload Power	P <sub>load</sub>	dBm	0			PRBS=2 <sup>23</sup> -1, BER=10 <sup>-10</sup> , ER=9~10dB

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

**DI2E-8063-K (PIN-TIA)**

**Dimensions:** (mm)  
*All dimensions are nominal*



**PINOUT**

<b>DI2E-8063-K</b>	
Pin Number	Function
1	GND
2	Non-inverted Output (D+)
3	Vcc
4	Power Monitor (Vpd)
5	Inverted Output(D*)

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