

## 1310 nm 2.5 Gbps PIN-TO

### DI2X-8062-x series

**TYPE NAME: DI2X-8062-1, DI2X-8062-2**

#### Product Description:

The LuxNet DI2X-8062-x PIN-TO is designed for high-speed, high-performance data communication and telecommunication applications. This device packaged our high-speed 1310 nm PIN detector into a TO-46 header with cap window. The product is designed for 2.5G optical communication systems. The PIN-TO 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:

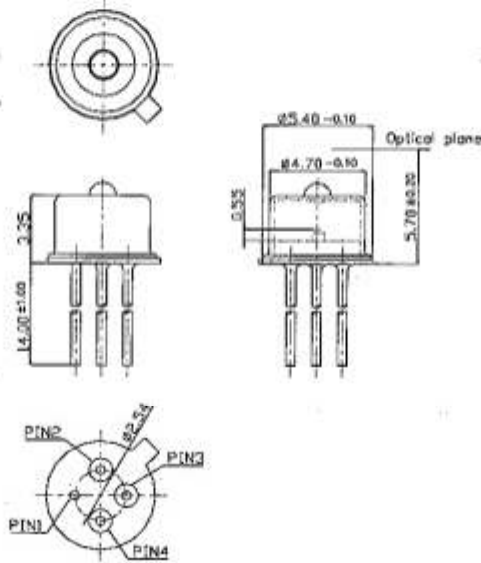
Absolute Maximum Ratings (T = 25°C):

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>stg</sub>	°C		260	10 seconds max.
Forward Current	I <sub>f</sub>	mA		10	
Reverse Voltage	V <sub>R</sub>	V		20	

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

Parameter	Symbol	Unit	Min	Typ	Max	Test Condition
Responsivity	R	A/W	0.85 0.90	0.90 0.95		λ = 1310 nm λ = 1550 nm
Dark Current	I <sub>D</sub>	nA		0.1	1.0	V <sub>R</sub> = 2 V
Breakdown Voltage	V <sub>B</sub>	V	20			I <sub>R</sub> = 1 μA
Capacitance	C	pF		0.7	0.8	V <sub>R</sub> = 2V, f = 1MHz
Rise/Fall Time	τ <sub>r</sub> /τ <sub>f</sub>	ps		90/90	100/100	V <sub>R</sub> = 2V (20%-80%)
Cut-off Frequency	f <sub>C</sub>	GHz	2.8	3.1		V <sub>R</sub> = 2V, R <sub>L</sub> = 50Ω

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



**PINOUT**

DF2X-8062-1		DF2X-8062-2	
Number	Function	Number	Function
1	GND	1	GND
2	NC	2	PD+
3	PD+	3	NC
4	PD-	4	PD-