

1310 nm 2.5Gbps 5pin PIN-TIA

DI2E-8063-5B series

TYPE NAME: DI2E-8063-5B

Product Description:

The LuxNet DI2E-8063-5B is designed for high-speed, high-performance bi-directional data communication and telecommunication applications. This device integrates our high-speed 1310 nm PIN detector with a STM16/OC48 trans-impedance amplifier (TIA) and capacitors into a TO-46 header with cap window. The product is designed for STM16/OC48 optical communication systems. The PIN-TIA assembly can be integrated with a bi-directional fiber receptacle housing to receive 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 _{op}	°C	-40	85	
Storage Temperature	T _{stg}	°C	-40	100	
Solder Reflow Temperature	T _{stg}	°C		260	10 seconds max.
Power Supply Voltage	V _p	V	-0.5	6	
Optical Power	P _{in}	dBm		5	

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

Parameter	Symbol	Unit	Min.	Typ.	Max.	Test Condition
Supply Voltage	V	V	3.0	3.3	3.6	
Supply Current	I _{cc}	mA		44	59	V _{cc} =3.3V, P _{in} = 0 μW, R _L = 50Ω,
Output Voltage (differential)	V _{op}	mV			330	P _{in} = 100 μW, R _L = 50Ω
Upper -3dB Bandwidth	BW	GHz	1.65	2.05	2.5	R _L = 50Ω
Sensitivity	S	dBm		-24	-22	λ=1310nm 2 ²³ - 1 PRBS, BER= 10 ⁻¹⁰ ER:9~10dB
Wavelength	λ	nm	1100	1310	1650	
Rise/Fall Time	τ _r /τ _f	ps		150/150	250/250	V _{cc} =3.3V; (20%-80%)
Dark Current	I _d	nA			10	V _r =-3.3V
Overload		dBm			-3	No bit error occur

* Specifications are subject to change without notice.

* Screening per customer-specified reject limits is available.

Version 1.0



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Notice

Version	Date	Status	Description	Signature
1.0	2014/5/26	Initial	D12E-8063-5B Spec.	Cherry

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