

No. 6, Hejiang Road, Jhongli City Taoyuan County, TAIWAN Tel: +886-3-452-5188 ext811/812 Fax: +886-3-462-9588 www.luxnetcorp.com.tw

1310nm 10Gbps FP Lasers TO-Can

FI5A-8100-x Series

TYPE NAME: FI5A-8100-7A6

Product Description:

The LuxNet FI5A-8100-x TO-56 header assembly is designed for high speed, high performance data communication and telecommunication applications. This device is integrated with a 1310 nm 10Gbps FP laser, a TO-56 header, a monitoring photodiode, and a ball lens cap. The product is designed for 10Gbps short and intermediate-reach optical communication systems. This TO header assembly can be integrated with different types of ports that are engaged with a single mode fiber connector to provide good coupling efficiency as light generated by the FP laser is transmitted into a single mode fiber.

Product Specifications:

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature(Ta)	T _{op}	°C	-40	85	
Storage Temperature	T _{stg}	°C	-40	85	
Solder Reflow Temperature	STEM	°C		260	10 seconds max.
Maximum Power	Ро	mW		10	
Reverse Voltage	Vr	V		2	
Photodiode Forward Current	I _{pd}	mA		10	

Electro-Optical Characteristics ($T = 25^{\circ}C$, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Тур	Max.	Test Condition
Threshold Current	I _{th}	mA		10	15	CW, Ta=25°C
Forward Voltage	V _f	V		1.2	1.5	CW, Iop=35mA
Slope Efficiency	η	mW/mA	0.20			Average, I _{th} +5mA to I _{th} +20 mA
Peak Wavelength	$\lambda_{\rm p}$	nm	1290	1310	1330	CW, Iop=35mA
Spectral Wavelength (RMS)	Δλ	nm			3	CW, Iop=35mA
Rise / Fall Time	$ au_{ m r}$	ps		50/50		I _{th} +20mA, 20-80%

Photodiode Characteristics ($T = 25^{\circ}C$, unless noted otherwise):

Parameter	Symbol	Unit	Min.	Тур	Max	Test Condition	
Monitor Current	Im	mA	0.1		0.8	CW, Iop=35mA,	
						VRPD = 2 V	
PD Dark Current	Id	nA			100	$P_{oc} = 0, V_r = 1.7V$	
PD Capacitance	С	pF		10	20	$V_r = 5V @ 1MHz$	

* Specifications are subject to change without notice.

* Screening per customer-specified reject limits is available.

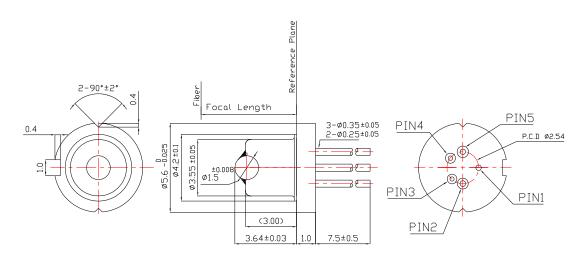


No. 6, Hejiang Road, Jhongli City Taoyuan County, TAIWAN Tel: +886-3-452-5188 ext811/812 Fax: +886-3-462-9588 www.luxnetcorp.com.tw

FI5A-8100-7A6 (TO-can)

Dimensions: (mm)

All dimensions are nominal



PINOUT

FI5A-8100-7A6(FL:5.8±0.2mm)				
Number	Function			
1	Photodiode Anode			
2	Laser Diode Cathode			
3	Photodiode Cathode			
4	NC			
5	Laser Diode Anode			

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



No. 6, Hejiang Road, Jhongli City Taoyuan County, TAIWAN Tel: +886-3-452-5188 ext811/812 Fax: +886-3-462-9588 www.luxnetcorp.com.tw

1310nm 10Gbps FP Lasers TO-Can

Notice								
Version	Date	Status	Description	Signature				
1.0	2014/08/01	Initial	FI5A-8100-7A6 Specification	Allen				

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