

1310nm 25Gbps DFB Laser LC TOSA with Flex (Preliminary)

L-AT-ID31-01

TYPE NAME: L-AT-ID31-01 Product Description:

This Luxnet L-AT-ID31-01 5pin 25Gbps DFB Laser LC-TOSA (Transmitter Optical Sub Assembly) is designed for 25Gbps fiber optic data communication. The application requirements are used to perform through single mode optical fiber. A flex provides to interconnect from header, which leads to transceiver PCB with control impedance. The device integrates DFB Laser diode with InGaAs PD as laser power monitor which located in the To-can. The product contains low threshold current.

Product Specifications:

Absolute Maximum Ratings

Parameter	Symbol	Units	Min	Max	Note
Operating Temperature (case)	Tc	°C	-5	+80	
Storage Temperature	Tstg	°C	-40	+85	
Soldering Temperature (10 sec)	STEM	°C	-	260	
Laser Reverse Voltage	V _{RL}	V	-	2	
Laser Forward Current	I _{FL}	mA	-	100	
Photodiode Reverse Voltage	V _{RD}	V	-	15	
Photodiode Forward Current	I _{pd}	mA	-	10	

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

Parameter		Symbol	Units	Min	Тур	Max	Test condition
Threshold Current		$I_{\rm th}$	mA	-	8		CW, $Tc = 25^{\circ}C$
						30	CW, $Tc = 80^{\circ}C$
Forward Voltage		V_{f}	V	-	-	2	CW, Tc = 25° C, I _{op} =I _{th} + 30 mA
Optical Output Power	SMF	\mathbf{P}_{f}	dBm	-4.0		+2.0	CW, Tc = 25° C, I _{op} =I _{th} + 30 mA
Optical Output Power	SMF	\mathbf{P}_{f}	mW	0.4		1.6	CW, Tc = 25° C, I _{op} =I _{th} + 30 mA
Peak Wavelength		λ	nm	1295	1310	1325	Tc =25°C
Tracking error		ΔPf/Pf	dB	-1.5		+1.5	APC, -5~80°C
Side Mode Suppression Rat	io	SMSR	dB	30			Tc = 25°C, I _{op} =I _{th} +30mA Scan resolution <0.1nm
Rise Time / Fall Time		$\tau_{\rm r}\!/\tau_{\rm f}$	ps	-	20		$I_{op} = I_{th} + 30 \text{mA} \ 20 - 80\%$

* Specifications are subject to change without notice.

* Screening per customer-specified reject limits is available.



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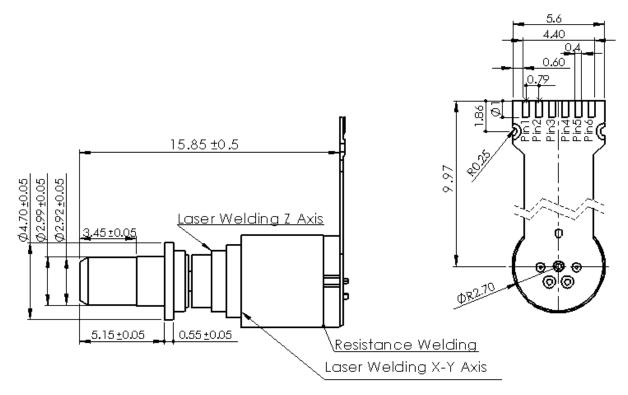
Photodiode Characteristics ($T = 25^{\circ}C$, unless noted otherw	vise):
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Parameter	Symbol	Units	Min	Тур	Max	test condition
PD Monitor Current	Ipd	mA	0.1	-	-	CW, $I_{op} = I_{th} + 30 \text{mA}$
PD Dark Current	Id	nA			100	V _r = 3.3V
PD Capacitance	С	pF		10	20	V _r = 5V @ 1MHz

L-AT-ID31-01 (LC-TOSA)

Dimensions: (mm)

All dimensions are nominal



L-AT-ID31-01			
Number	Function		
Pin1	No Connect		
Pin2	GND		
Pin3	LD+		
Pin4	LD-		
Pin5	GND		
Pin6	PD-		

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