

850nm 25Gbps VCSEL TO (Preliminary)

L-TT-IV08-00 Series

TYPE NAME: L-TT-IV08-00 Product Description:

The LuxNet L-TT-IV08-00 TO header is designed for a high-speed, high-performance data communication and Fiber channel applications. This device is integrated with an 850nm VCSEL, a flat cap, and 7pin TO header. The product is designed for 25Gbps application, transceiver modules and systems. The TO-can can be integrated with different types of ports that are engaged with a fiber connector to provide good coupling efficiency as light generated by the VCSEL is transmitted into multimode fiber.

Product Specifications:

Absolute Maximum Ratings

Parameter	Symbol	Unit	Min.	Max.	Note
Operating Temperature	T_{op}	°C	-5	75	
Storage Temperature	T_{stg}	°C	-40	85	
Soldering Temperature	T _s	°C	-	260	10 seconds max.
Peak Forward Current	I _{max}	mA	-	12	
VCSEL Reverse Voltage	Vr	V	-	5	

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

Parameter	Symbol	Unit	Min.	Тур	Max.	Test Condition
Threshold Current	T	A	-	0.7	1.2	
	I_{th}	mA	1.6 Tc=70°C	Tc=70°C		
Forward Voltage	V_{f}	V	-	-	2.5	Iop =6.5mA
Slope Efficiency	η	W/A		0.35		I=Ith+1mA, 50um
Differential Series Resistance	Rs	Ω	-	-	120	Iop =6.5mA
Peak Wavelength	$\lambda_{ m p}$	nm	840	850	860	Iop =6.5mA
Spectral bandwidth (RMS)	Δλ	nm	-	-	0.6	Iop=6.5mA
Rise Time / Fall Time	τ_r/τ_f	ps	-	20		Iop= 6.5mA 20-80%

* Specifications are subject to change without notice.

* Screening per customer-specified reject limits is available.



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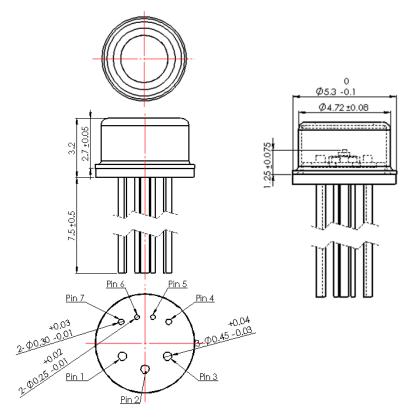
Photodiode	Characteristics (T-2	25°C	unless	noted	otherwise).
FIIOLOGIOGE	Characteristics ((1 - 2)	23 C,	umess	noteu	otherwise).

Parameter	Symbol	Unit	Min	Тур	Max	Test Condition
Monitor Current	\mathbf{I}_{pd}	mA	0.1			@6.5mA @ 25°C
Dark Current	I_d	nA	-	-	6	V _r =40@ 25°C
PD Capacitance	С	pF	-	20	-	Vr= 5V @ 1MHz

L-TT-IV08-00 (LC-TOSA)

Dimensions: (mm)

All dimensions are nominal



Flex Board PINOUT (Bottom View)

L-AT-IV08-00				
Number	Function			
Pin1	PD+			
Pin2	GND			
Pin3	PD-			
Pin4	NC			
Pin5	LD-			
Pin6	LD+			
Pin7	NC			

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