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850nm 25Gbps VCSEL LC TOSA with Flex (Preliminary)

L-AT-IV08-00 Series

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

The LuxNet L-AT-IV08-00 TOSA (Transmitter Optical Subassembly) is designed for a high-speed, high-performance TOSA data communication and Fiber channel applications. This device is integrated with an 850nm VCSEL, 7pin TO header, and plastic lens port and flex. 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	V _r	V	-	5	

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

Parameter	Symbol	Unit	Min.	Тур	Max.	Test Condition
Threshold Current	$I_{ m th}$	mA	-	0.7	1.2	
			-	-	1.6	Tc=70°C
Forward Voltage	$V_{\rm f}$	V	ı	ı	2.5	Iop =6.5mA
Differential Series Resistance	R_s	Ω	1	ı	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	$ au_{ m r}/ au_{ m f}$	ps	-	20		Iop= 6.5mA
						20-80%
Peak Fiber Coupled Optical	P _{oc}	μW	500	800	1200	Iop =6.5mA peak,
Power						50/125 μm fiber

^{*} Specifications are subject to change without notice.

^{*} Screening per customer-specified reject limits is available.



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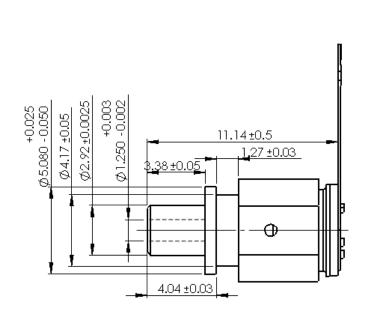
Photodiode Characteristics ($T = 25^{\circ}C$, unless noted otherwise):

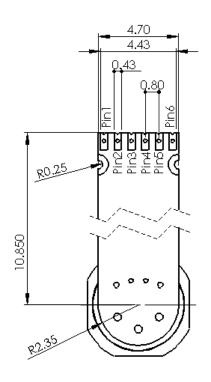
Parameter	Symbol	Unit	Min	Тур	Max	Test Condition
Monitor Current	I_{pd}	mA	0.1		0.8	@6.5mA @ 25°C
Dark Current	I_d	nA	-	-	6	V _r = 40@ 25°C
PD Capacitance	С	pF	-	20	-	Vr= 5V @ 1MHz

L-AT-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	LD+			
Pin4	LD-			
Pin5	GND			
Pin6	PD-			

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