Part Number: TO9-248

High Power TO9 Package Single-Mode Fabry-Perot CW Wavelength at 1310nm Lensed Options Available

Features

- **High Output Power** •
- High Dynamic Range
- High Efficiency
- Standard TO9
- Cost Effective

Application

Telecom OTDR

SemiNex delivers the highest available power at infrared wavelengths between 12xx and 19xx nm. When necessary, we will further optimize the design of our InP & GaSb laser chips to meet our customers' specific optical and electrical performance needs. Diodes, bars and packages are tested to meet customer and market performance demands. Typical results and packaging options are shown. Contact SemiNex for additional details or to discuss your specific requirements.

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2	Ра	g e

*Available Lenses & Caps					
	Part Number	Description			
	TO9-248	TO9 Uncapped			
	TO9-248-114	TO9 Cap, 4.6mm Tall			
	TO9-248-115				
	TO9-248-140				
	TO9-248-161	TO9 Cap 5.8mm Tall			

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*Specified values are rated at a constant heat sink temperature of 20°C. **High temperature operation will reduce performance and MTTF. Unless otherwise indicated all values are nominal.

Optical	Symbol	iyp.	Units
Center Wavelength	λ _c	1310	nm (±20)
Output Power (CW)*	Pout	0.4	watts (±10%)
Emitter Width	W	4	μm
Spectral Width FWHM	Δλ	10	nm
Slope Efficiency	η	0.34	W/A
Fast Axis Div.	Θ⊥	28	deg FWHM
Slow Axis Div.	Θ _{II}	10	deg FWHM
Electrical	Symbol		Units
Power Conversion Eff.	η	14	%
Threshold Current	Ітн	0.05	А
Operating Current	l _{op}	1.2	А
Operating Voltage	Vop	3.4	V
Mechanical	Symbol	Range	Units
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

Specification

Ontical

TO9-248

Symbol

High Power Laser Diode TO-Cans



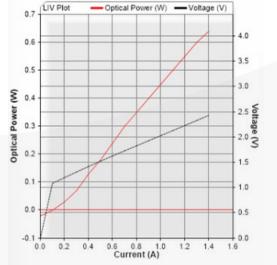


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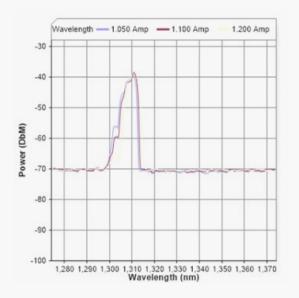
SemiNex Laser Diodes TO9-248

Graphs & Data





Typical TO9 Output Spectrum





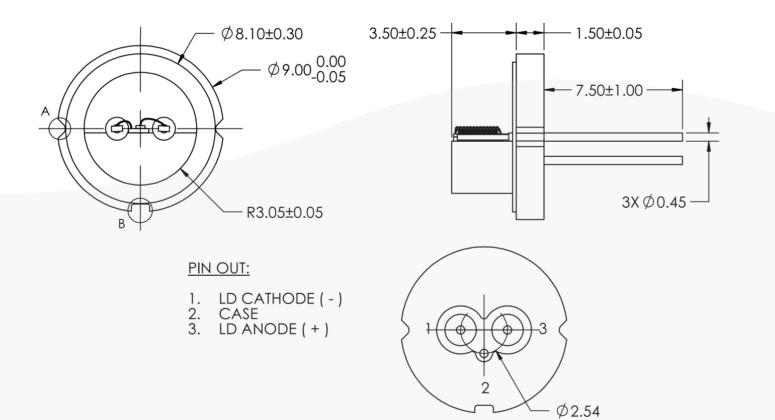






Mechanical Drawing TO9-248





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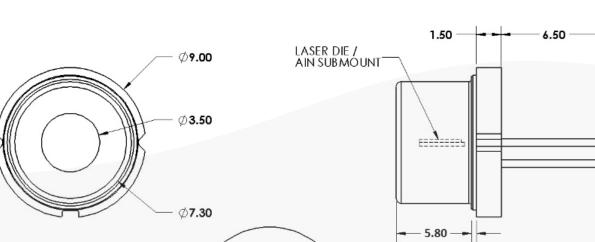
DANGER

PRODUCTS

3X Ø0.45

High Power Laser Diode TO-Cans

Mechanical Drawing TO9-248-115 TO9-248-140 TO9-248-161



0.200 PIN OUT: LD CATHODE (-) 1. 2. CASE LD ANODE (+) 1.00 0.40

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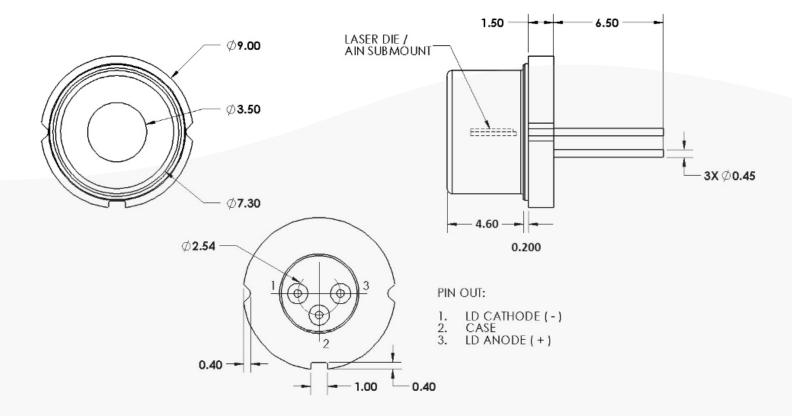


0.40 -



Mechanical Drawing TO9-248-114





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