

Part Number: TO9F-111

High Power TO9 Fiber Coupled Module Single-Mode Fabry-Perot Laser Diode CW Wavelength at 1310nm



Features

- High Output Power
- High Dynamic Range
- High Efficiency
- TO9 Fiber Coupled Module
- Cost Effective

Application

- Telecom OTDR
- Optical Comm



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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Specification

TO9F-111



Optical	Symbol	Тур.	Units
Center Wavelength	λς	1310	nm (±20)
Output Power (CW)*	Pout	0.2	watts (±10%)
Spectral Width FWHM	Δλ	10	nm
Slope Efficiency	η	0.17	W/A
Optical Fiber Core Dia.		9	μm
Optical Fiber NA		SMF	
Electrical	Symbol		Units
Power Conversion Eff.	η	9	%
Operating Current	lop	1.3	А
Threshold Current	lтн	0.08	А
Operating Voltage	V _{op}	2.1	V
Mechanical	Symbol		Units
Fiber Length		1	meters
Connector Type		FC/PC	
		Range	
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

PLEASE NOTE: The TO9F laser package is not electrically isolated. The package body is the anode connection. Care should be taken in mounting and installation.

*Specified values are rated at a constant heat sink temperature of 20°C.

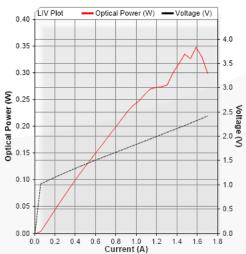
**High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

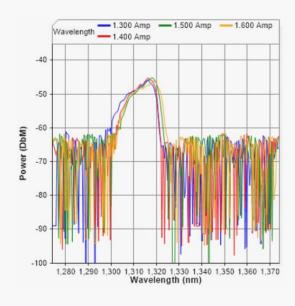


SemiNex Laser Diodes TO9F-111 Graphs & Data

Typical TO9F L-I-V Characteristics



Typical TO9F Output Spectrum



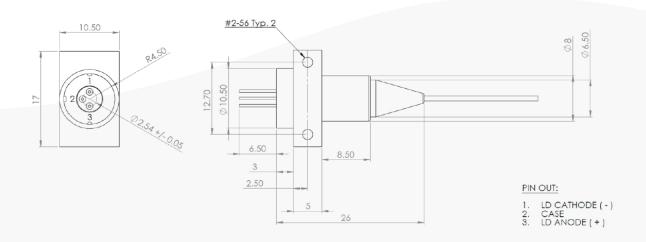


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Mechanical Drawing





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