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SemiNex delivers the highest available power at infrared wavelengths between 12xx and 19xx nm. When necessary wavelengths between 12xx and 19xx nm. When necessary we will further optimize the design of our InP 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. requirements.



Fiber Coupled TO9 SM

High Power Single Mode SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available

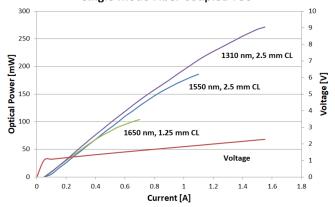
Applications • OTDR

- LiDAR
- Free Space CommunicationsNetwork Test equipment

Features

- High Output Power High Dynamic Range
- High EfficiencyStandard Low Cost Package

Single Mode Fiber Coupled TO9



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Non-Pulsed TO9



	Symbol	TO9F-111	Units
Optical	-		
Wavelength	λ_{c}	1310	nm (±20)
Output Power (CW)	P∘	0.20	watts (±10%)
Chip Cavity Length	CL	2500	μm
Emitter Width	W	9	μm
Emitter Height	Н	1	μm
Spectral Width	δλ	10	nm 3dB
Slope Efficiency	η _°	0.17	W/A
Fast Axis Div.*	Θ_perp	8	deg FWHM
Slow Axis Div.	Θ_parallel	8	deg FWHM
Electrical			
Power Conversion Eff.	η	9	%
Operating Current	I _{op}	1.3	A
Threshold Current	I _{th}	0.08	A
Operating Voltage	V_{op}	2.1	V
Mechanical			
Weight		13.5	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C

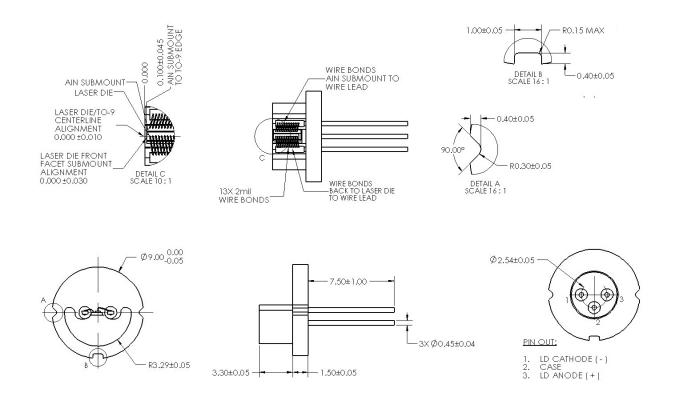
Specified values are rated at a constant heat sink temperature of 20°C.

**Specified operating conditions are based on 20C heat sink temperature. High temperature operation will reduce performance and MTTF.

Unless otherwise indicated all values are nominal.

Uncapped TO9 specifications assume heatsinking underneath laser chip.

Capped TO9 specifications assume heatsinking only on flat surface where pins extend.



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