



4CM Packaged Laser Diode PRELIMINARY

High Power Multi-Mode SemiNex Lasers 12xx to 19xx nm Custom Wavelengths Available Fiber Coupled

Applications

- Medical
- · Thermal Processing
- DPSS Pump Lasers

Features

- 1470nm wavelength
- Custom Wavelengths Available
- Red Aiming Beam
- Thermistor
- Monitor Photodiode

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 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.





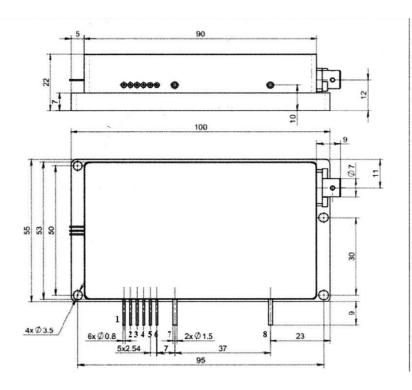


	Symbol	4CM-104	Units
Optical			
Center Wavelength	λ _c	1485	nm (±20)
Output Power (CW)	P∘	18.00	watts (±10%)
Spectral Width	δλ	20	nm 3dB
Slope Efficiency	η∘	1.4	W/A
Optical Fiber Core Dia.	η∘	400	μm
Optical Fiber NA		0.22	
Fiber Length		1.5	meters
Connector		SMA905	
Electrical			
Power Conversion Eff.	η	22.00	%
Threshold Current	I _{th}	0.9	A
Operating Current	I _{op}	14	A
Operating Voltage	V _{op}	5.4	V
Lead Soldering Temp.	°C	250	°C
Aiming Beam			
Output Power	P _a	2	mW
Wavelength	λ_a	635	nm
Operating Current**	I _{op}	50	mA
Voltage Limit	V _{max}	2.2	V
Mechanical			
Weight		400	g
Operating Temp.**		-40 to 60	°C
Storage Temp.		-40 to 80	°C
Thermistor			
Thermistor Constant	β	3477	β
Thermistor Resistance	R	10000	K ohm

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.



Pins	Function		
1	PD (P) *		
2	PD (N) *		
3	Red Aim (+)		
4	Red Aim (-)		
5	Thermistor*		
6	Thermistor*		
7	LD (-)		
8	LD (+) .		

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