



CS Bar Package

High Power Multi-Mode Lasers 25 Watts of CW Power 1315, 1350, 1470, 1532, 1550 nm

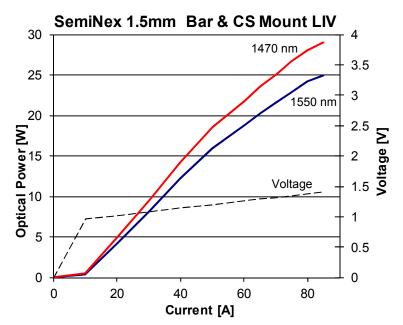
Features

- High output power
- High dynamic power range
- High efficiency

Applications

- Medical laser equipment
- LIDAR
- Free Space Optical Communication
- DPSS pump lasers
- Military / Aerospace

SemiNex delivers the highest available power at infrared wavelengths between 13xx and 17xx 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





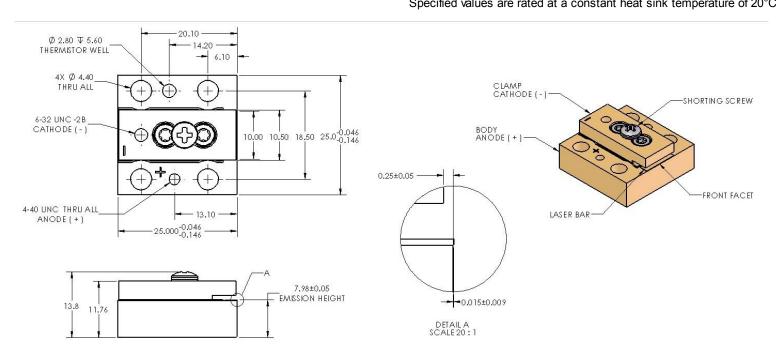
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CS Bar Package



	Symbol	CS-113	CS-110	CS-101	CS-102	CS-111	CS-112	CS-106	CS-108	CS-107	CS-114	Units
Optical												
Wavelength	λ _c	1315	1350	1470	1470	1525	1532	1550	1550	1550	1680	nm (±20)
Optical Power	Po	25	25	20	25	25	20	20	20	25	12	W
Chip Cavity Length		1500	1500	1500	2500	2500	1500	2500	1500	2500	1500	μm
Emitter Width	W	95	95	95	95	95	95	95	95	95	95	μm
Emitter Height	Н	1	1	1	1	1	1	1	1	1	1	μm
Number of emitters		19	19	19	19	19	19	19	19	19	19	
Spectral Width	Δλ	15	15	15	15	15	15	15	15	15	15	nm 3dB
Slope Efficiency	η。	0.50	0.50	0.40	0.31	0.30	0.30	0.30	0.30	0.27	0.25	W/A
Fast Axis Div.	θ_perp	25	25	25	25	25	25	25	25	25	25	deg FWHM
Slow Axis Div.	$\theta_{parallel}$	8	8	8	8	8	8	8	8	8	8	deg FWHM
Electrical												
Power conversion Eff.	η	0.36	0.36	0.30	0.25	0.25	0.25	0.23	0.25	0.23	0.25	
Threshold Current	I _{th}	9	9	10	12	12	10	12	10	12	10	A
Operating Current	I _{op}	50	50	60	100	100	65	100	65	100	65	А
Operating Voltage	V _{op}	1.3	1.3	1.3	1.1	1.1	1.3	1.1	1.3	1.1	1.3	V
Series Resistance	R _s	7	7	6	4	4	6	4	6	4	6	mOhm
Mechanical												
Weight	44.0											g
Operating Temp.	10 to 30											°C
Storage Temp.	-20 to 80										°C	
	Specified values are rated at a constant heat sink temperature of 20°C											



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