5W 808nm Single Emitter Laser Chip

Unmounted laser diode bars are available at a variety of wavelengths in CW or QCW versions. Extreme care should be taken when handling these components. We recommend that they be only used by customers who are experienced in the handling and packaging of laser diode bars.
We'll match your specifications to our standard products, or evaluate modified designs to meet your special applications. Our 5W 808nm single emitter laser chip bar have high quality, high efficiency with CW working mode, 0.35nm/℃ wavelength temperature coefficient. Other wavlength and power also provided.

Feature

4nm spectrum width, 100um emitter width
1W/A slope efficiency, 58% conversion efficiency
Optimized epitaxial structure design
Unique technology for highest reliability and lifetime

Application

Fiber Laser Pumping Source
Autonomous Driving Lidar
Free space optical communication
Laser lighting

Date sheet

Item No.: LC808SE5
Item Name: 5W 808nm Single Emitter Laser Chip

Optical	Min	Typ	Max
Central Wavelength	805nm	808nm	811nm
Output Power		5W	
Working Mode		CW	
Spectrum Width		4nm	
Emitter Width		100um	
Number of Emitter		1	
Emitter Pitch		100um	
Chip Width	480um	500um	520um
Cavity Length	3980um	4000um	4020um
Thickness	115um	120um	125um
Fast Axis Divergence(FWHM)		35deg	
Slow Axis Divergence (FWHM)		10deg	
Polarization Mode		TE	
Slope Efficiency	0.95W/A	1W/A	
Electrical			
Operating Current Iop		5.5A	6A
Threshold Current Ith		0.9A	
Operating Voltage Vop		1.8V	
Conversion Efficiency		58%	
Thermal			
Test Temperature		25℃	
Wavelength Temperature Coefficient		0.35nm/℃	

More details about the laser chip, pls contact us