

500mW 638nm Single Emitter Laser Chip

Laser Chip, also called unmounted diode laser bar, based on industry-leading semiconductor technology,; at output powers from 100mW to 600W. Wavelengths include 500~700nm, 880nm, 905-980nm, 1064nm, and 1400-1550nm. This single emitter laser chip is based on cw working mode and the 500mW output power.

Feature

Red light laser chip
CW working mode, high efficiency
High power and high beam intensity IR laser radiation
Low beam divergence and small light emitting aperture
Stable and reliable performance

Application

Lidar
Autonomous Driving Lidar
Wind Sensing Lidar
Fiber Laser Seeding



Date sheet

Item No.: LC638SE500

Item Name: 500mW 638nm Single Emitter Laser Chip

Optical	Typ
Central Wavelength	638nm
Output Power	500mW
Working Mode	CW
Spectrum Width	3nm
Emitter Width	40um
Cavity Width	300um
Cavity Length	1500um
Thickness	150um
Fast Axis Divergence(FWHM)	35deg
Slow Axis Divergence (FWHM)	10deg
Polarization Mode	TE
Slope Efficiency	1.1W/A
Electrical	
Operating Current Iop	1A
Threshold Current Ith	0.2A
Operating Voltage Vop	2.2V
Conversion Efficiency	30%
Thermal	
Operating Temperature	25
Wavelength Temperature Coefficient	0.25nm/

Chart

