

1W 638nm Single Emitter Laser Chip

With the rapid development of industrial processing, biomedical beauty, high-speed optical communication, machine vision and sensing, laser display, laser lighting and other industries, the demand for laser is growing rapidly. Laser chip is an indispensable core device for the development of laser industry and the technical core of the whole laser industry chain. We provide 1W 638nm Single Emitter Laser Chip with CW working mode, 100% power modulation, with high reliability and stability.

Feature

1W output power at 638nm center wavelength
CW working mode, single emitter laser chip
High brightness, high reliability and stability
Efficient packaging heat dissipation technology

Application

Material processing
Laser Illumination
Sensing Lidar
Military
Laser lighting source



Date sheet

Item No.: LC638SE1

Item Name: 1W 638nm Single Emitter Laser Chip

Optical	Typ
Central Wavelength	665nm
Output Power	1W
Working Mode	CW
Spectrum Width	3nm
Emitter Width	100um
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	1.6A
Threshold Current Ith	0.6A
Operating Voltage Vop	2.2V
Conversion Efficiency	30%
Thermal	
Operating Temperature	25°C
Wavelength Temperature Coefficient	0.25nm/°C

Chart

