

## 1W 640nm CW Single Emitter Laser Chip

1W 640nm CW Single Emitter laser diode (SE) chips are the basic building block for high-power and high-brightness semiconductor laser modules. We can provide red light output, blue light output, green light output chip, can also be made to 9mm, all based on your needs.

### Feature:



1W output power at 640nm central 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

### Data Sheet

Item No: LC640SE1

Item Name: 1W 640nm CW Single Emitter Laser Chip

Optical	Min	Typ	Max
Central Wavelength	630nm	640nm	650nm
Output Power		1W	
Working Mode		CW	
Spectrum Width		5nm	
Number of Emitter		1	
Emitter Width		80um	
Cavity Width	490um	500um	510um
Cavity Length	3990	4000um	4010
Thickness	130um	150um	170um
Fast Axis Divergence(FWHM)		29deg	
Slow Axis Divergence (FWHM)		9deg	
Polarization Mode		TE	
Slope Efficiency	0.95W/A	1W/A	
Electrical			
Operating Current Iop		1.4A	
Threshold Current Ith		0.38A	
Operating Voltage Vop		2.25V	
Thermal			
Operating Temperature		25	
Wavelength Temperature Coefficient		0.35nm/	