

# 140W 905nm Single Emitter Diode Laser Chip

Brandnew Technology Company provide 140W 905nm Single Emitter Diode Laser Chips. With the development of unmanned driving, surveying and mapping detection and other applications, higher requirements are put forward for the test range and accuracy of lidar, and higher requirements are put forward for the power of laser transmitting chip. So according to the market demand, we provide 140W 905nm laser chip.



## Feature:

QCW working mode, 905nm central wavelength, 140W output power

TE Polarization mode, 4.7W/A slope efficiency

300  $\times$  14um Emitter Width

With 200ns Pulse Width, 10% Duty Cycle

## Application:

Laser Lidar

Medical application

Laser lighting

Free space optical communication.

Industrial pumping

## Data Sheet

Item No: LC905SE140

Item Name: 140W 905nm Single Emitter Diode Laser Chip

Optical	Min	Typ	Max
Central Wavelength	890nm	905nm	920nm
Output Power		140W	
Working Mode		QCW	
Spectrum Width		5nm	
Emitter Width		300*14um	
Chip Width		400um	
Thickness		150um	
Fast Axis Divergence(FWHM)		30deg	
Slow Axis Divergence (FWHM)		13deg	
Polarization Mode		TE	
Slope Efficiency		4.7W/A	
Electrical			
Operating Current Iop		22A	30A
Threshold Current Ith		0.8A	
Operating Voltage Vop		11V	12V
Conversion Efficiency		41%	
Pulse Width		200um	
Duty Cycle		0.10%	
Repetition Frequency		5000Hz	
Thermal			
Operating Temperature		25°C	
Wavelength Temperature Coefficient		0.31nm/°C	

## Drawing:

