

5W 440nm Single Emitter Laser Chip

5W 440nm Single Emitter Laser Chip With CW working mode, this chip is the smallest wavelength of all our chip products. After a long period of research, our technicians have released this chip, which is qualified in terms of lifetime and stability.

Feature:

Low beam divergence and small light emitting aperture



Stable and reliable performance

CW working mode

Available with red, blue, green chips, TO 9mm

Long service life, high reliability and stability

Application:

Light source

Free space optical communication

Driving Lidar

Medical application

Data Sheet

Item No: LC440SE5

Item Name: 5W 440nm Single Emitter Laser Chip

Optical	Min	Typ	Max
Central Wavelength	430nm	440nm	450nm
Output Power		5W	
Working Mode		CW	
Spectrum Width		5nm	
Number of Emitter		1	
Emitter Width		45um	
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		2.9A	
Threshold Current Ith		0.37A	
Operating Voltage Vop		4.6V	
Thermal			
Operating Temperature		25	
Wavelength Temperature Coefficient		0.35nm/	

