

12W 880nm CW Bare Bar 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 12W 880nm Bare Bar Laser Chip with CW working mode, 100% power modulation, with high reliability and stability.



Feature:

880nm central wavelength, 12W output power
 CW working mode, with pulse wavelength
 Wide variety of bar configurations
 High power and high beam intensity IR laser radiation

Application:

Medical and Aesthetic
 Solid-state laser pumping
 Lidar application
 Material processing

Data Sheet

Item No: LC880SE12

Item Name: 12W 880nm CW Bare Bar Laser Chip

Optical	Min	Typ	Max
Central Wavelength	883nm	888nm	893nm
Output Power		12W	
Working Mode		CW	
Spectrum Width		4nm	
Emitter Width		200um	
Emitter Pitch		500um	
Cavity Length	3990um	4000um	4010um
Thickness	110um	130um	150um
Fast Axis Divergence(FWHM)		36deg	
Slow Axis Divergence (FWHM)		10deg	
Polarization Mode		TE	
Slope Efficiency	1W/A	1.1W/A	
Power Modulation		100%	
Electrical			
Operating Current Iop		10.5A	85A
Threshold Current Ith		1.2A	
Operating Voltage Vop		1.65V	12V
Conversion Efficiency	52%	58%	
Pulse Wavelength	879nm	884nm	889nm
Thermal			
Operating Temperature		25°C	
Wavelength Temperature Coefficient		0.28nm/°C	

