

40W 880nm CW Single Bar Laser Chip High quality

40W 880nm Single Bar Laser Chips are the basic building block for high-power and high-brightness semiconductor laser modules. Inspecting in every aspect come to a result to guarantee each product with the reliability, stability and long lifetime.

Feature:

High, reliable output power 40W and ideal beam characteristics

CW working mode, 19 single emitters, 30% filling factor

Efficient packaging heat dissipation technology

High temperature resistance characteristics

Stable and reliable performance

Application:

Solid-state Laser Pumping Source

Direct material processing

Use in printing technology

Laser lighting, free space optical communication



Data Sheet

Item No: LC880SB40

Item Name:40W 880nm Single Bar Laser Chip

Optical

Pulse Wavelength	875nm	880nm	885nm
Output Power		40W	
Working Mode		CW	
Spectrum Width		4nm	
Number of Emitter		19	
Emitter Width		150um	
Emitter Pitch		500um	
Filling Factor		30%	
Bar Width	9800um	10000um	10200um
Cavity Length	990um	1000um	1010um
Thickness	110m	130um	150um
Fast Axis Divergence(FWHM)		39deg	
Slow Axis Divergence (FWHM)		9deg	
Polarization Mode		TE	
Slope Efficiency	1.05W/A	1.15W/A	

Electrical

Operating Current Iop		41A	44A
Threshold Current Ith		6A	
Operating Voltage Vop		1.8V	2.0V
Conversion Efficiency	50%	55%	

Thermal

Operating Temperature	15	25	35
Wavelength Temperature Coefficient		0.28nm/	