

High Power 300W 808nm QCW Single Bar Laser Chip

Quick Details:

Highest quality: We strictly monitor the production of our semiconductor products in clearly defined processes.

Powerful: High, reliable output power, and ideal beam characteristics.

Economical: Our semiconductors are very efficient and are characterized by a long service life.

Easy Assemble: Our semiconductor products are easily assembled using standard soldering methods.

We deliver our laser bars to you with emitter structures separated on the p-side as standard.

Application:

Industry: direct material processing, heating or lighting, pump sources for fiber and solid-state lasers, printing technology.

Medicine: Esthetics, dermatology, and surgery.

Data Sheet

Item No: LC808SB300

Item Name: 300W 808nm QCW Single Bar Laser Chip

Optical

Pulse Wavelength	803nm	808nm	813nm
Output Power		300W	
Working Mode		CW	
Spectrum Width		4nm	
Number of Emitter		60	
Emitter Width		120um	
Emitter Pitch		160um	
Filling Factor		75%	
Bar Width	9900um	10000um	10100um
Cavity Length	1490um	1500um	1510um
Thickness	110um	130um	150um
Fast Axis Divergence(FWHM)		39deg	
Slow Axis Divergence (FWHM)		12deg	
Polarization Mode		TE	
Slope Efficiency	1.05W/A	1.15W/A	

Electrical

Operating Current Iop		280A	290A
Threshold Current Ith		30A	
Operating Voltage Vop		1.9V	2.1V
Conversion Efficiency	50%	55%	

Thermal

Operating Temperature	15°C	25°C	35°C
Wavelength Temperature Coefficient		0.28°C	

PIV Chart:

808nm QCW300W LIV Curve

