

600W 940nm QCW Single Bar Laser Chip

Main Features:

Wavelength: 940nm
QCW working mode
High conversion efficiency
Long lifetime>10⁹ pulsed
Quick delivery time with customized product.

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: LC940SB600

Item Name: 600w 940nm QCW Single Bar Laser Chip

Optical

Pulse Wavelength	935nm	940nm	945nm
Output Power		600W	
Working Mode		QCW	
Spectrum Width		4nm	
Number of Emitter		40	
Emitter Width		190um	
Emitter Pitch		250um	
Filling Factor		76%	
Bar Width	10000um	10400um	10500um
Cavity Length		2000um	
Thickness	145m	150um	155um
Fast Axis Divergence(FWHM)		30deg	
Slow Axis Divergence (FWHM)		12deg	
Polarization Mode		TE	
Slope Efficiency	1.05W/A	1.1W/A	

Electrical

Operating Current Iop		600A	620A
Threshold Current Ith		28A	
Operating Voltage Vop		1.8V	2.0V
Conversion Efficiency		60%	

Thermal

Operating Temperature	15℃	25℃	35℃
Wavelength Temperature Coefficient		0.3℃	