

# CW 100W 976nm Single Bar Laser Chip With 47 Emitters

## Overview:

100W output power, 976nm central wavelength

CW working mode, 47 emitters, TE Polarization Mode

Advanced cavity passivation coating technology

Under continuous current tests is 105W @ 110A

Unique technology for highest reliability and lifetime

## Advantage:

Low Voltage, High Efficiency, Long Lifetime

Excellent Solderability, High brightness

High temperature resistance characteristics

Stable and reliable performance

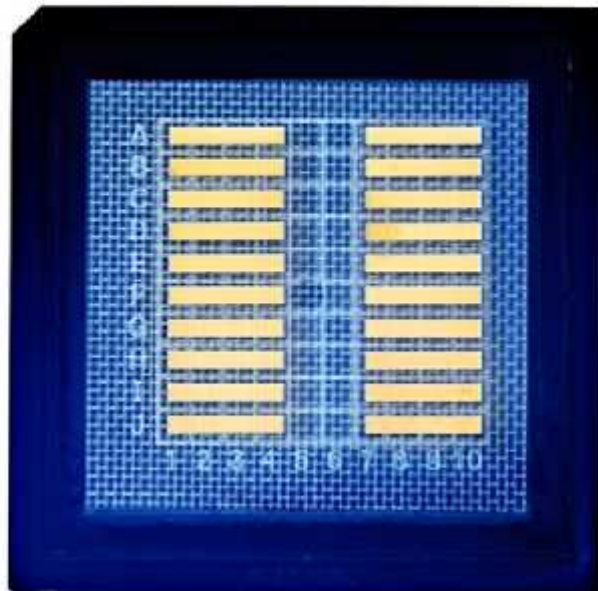
## Application:

High-brightness semiconductor laser modules

Industrial pumping Source

Laser illumination

Dermatology and Surgery



**Data Sheet**

**Item No:** DL976SB100

**Item Name:** CW 100W 976nm Single Bar Laser Chip With 47 Emitters

<b>Optical</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>
Central Wavelength	973nm	976nm	980nm
Output Power		100W	
Working Mode		CW	
Spectrum Width		4nm	
Number of Emitter		47	
Emitter Width		100um	
Emitter Pitch		200um	
Filling Factor		50%	
Bar Width	9900um	10000um	10100um
Cavity Length	1990	2000um	2010
Thickness	100um	120um	140um
Fast Axis Divergence(FWHM)		42deg	
Slow Axis Divergence (FWHM)		12deg	
Polarization Mode		TE	
Slope Efficiency		1.15W/A	
<b>Electrical</b>			
Operating Current Iop		120A	
Threshold Current Ith		30A	
Operating Voltage Vop		1.6V	1.85V
Conversion Efficiency		55%	
<b>Thermal</b>			
Operating Temperature		25	
Wavelength Temperature Coefficient		0.35nm/	