

## 500mW CW 976nm Single Mode Laser Chip in Stock

### Overview:

500mW output power, 976nm central wavelength, CW working mode

Number of emitter: 1 Polarization mode: TE

Conversion Efficiency can research to 42%

High Brightness and long service life

Quick delivery: this chip is in stock and can be delivered immediately after payment is received.

### Application:

Medicine: Aesthetics, dermatology and surgery.

Fiber Laser Pumping Source

Solid-state Laser Pumping Source

Direct Semiconductor Laser

Laser illumination



## Data Sheet

**Item No:** LC976SM500

**Item Name:** 500mW CW 976nm Single Mode Laser Chip in Stock

<b>Optical</b>	<b>Min</b>	<b>Typ</b>	<b>Max</b>
Central Wavelength	966nm	976nm	986nm
Output Power		500mW	
Working Mode		CW	
Spectrum Width		5nm	
Number of Emitter		1	
Emitter Width	2.5um	3um	
Emitter Pitch	490um	500um	510um
Cavity Length	3990	4000um	4010
Thickness	130um	150um	170um
Fast Axis Divergence(FWHM)		29deg	
Slow Axis Divergence (FWHM)		9deg	
Polarization Mode		TE	
Slope Efficiency	0.95W/A	1W/A	
<b>Electrical</b>			
Operating Current Iop		0.7A	
Threshold Current Ith		0.3A	
Operating Voltage Vop		1.69V	1.9V
Conversion Efficiency		42%	
<b>Thermal</b>			
Operating Temperature		25	
Wavelength Temperature Coefficient		0.35nm/	