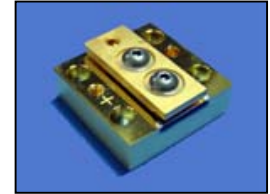




## AB098C20W



### TECHNICAL DATA

## High Power Single Bar CW Infrared Laser Diode

#### Features

- Output Power: 20 W
- 920-980 nm Emission Wavelength
- Spectral Width:  $\leq 3$  nm
- High Reliability, High Efficiency

#### Applications

- Laser Pumping
- Medical Usage
- Printing

#### Specifications (25°C)

Item	Symbol	Value	Unit
<b>Optical Specifications</b>			
CW Output Power	$P_O$	20	W
Array Length	L	10	mm
Center Wavelength	$\lambda_C$	920-980	nm
Wavelength Tolerance		$\pm 5$	nm
Spectral Width	$\Delta\lambda$	$\leq 3$	nm
Emitting Area	W x H	100 x 1	$\mu\text{m}$
Emitter Pitch		500	$\mu\text{m}$
Number of Emitters		19	
Wavelength Temperature Coefficient		0.3	nm/°C
Beam Divergence	$\theta_{\perp} \times \theta_{\parallel}$	40x8	deg
<b>Electrical Specifications</b>			
Slope Efficiency	$E_S$	$\geq 0.8$	W/A
Conversion Efficiency	$N_S$	$\geq 30\%$	
Threshold Current	$I_{TH}$	$\leq 10$	A
Operating Current	$I_F$	$\leq 30$	A
Operating Voltage	$U_F$	$\leq 2$	V
<b>Absolute Maximum Ratings</b>			
Reverse Voltage	$U_R$	2.5	V
Operating Temperature	$T_{OP}$	+10 ... +40	°C
Storage Temperature	$T_{STG}$	-40 ... +85	°C



