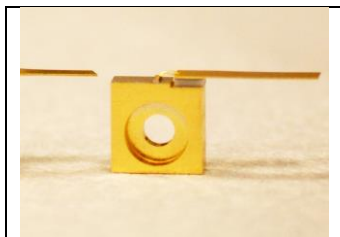




DATA SHEET: 2780 nm FABRY-PEROT LASER DIODE

Product number: FL27200000CM-W3-5mW



Specification*

T = 20 °C, Continuous-wave operation

Parameter	Unit	Min.	Typ.	Max.
Resonator length	mm		1.1	
Ridge width	μm	3	4	5
Threshold current	mA		80	
Operating current	mA	0	<240	250
Operating voltage @ 0.2 A	V		1.5	2.0
Peak output power	mW		4	NA
Center wavelength @ 0.2 A	nm	2760	2780	2820
Spectral bandwidth @0.2 A	nm		<5	
Beam shape and mode properties**				
Mode	Fast-axis	Slow-axis		Polarization
TE00	~ 70 deg	20 deg		TE

* Exceeding maximum operating ratings can lead to permanent damage to the device! This can adversely affect device performance or lead to complete failure.

** Divergence angle values indicate FWHM of the full far-field divergence angle. Beam profile and M2 measurements are carried out in accordance to ISO-11146 standard.

Typical characteristics: C-mount package

Brolis semiconductors Ltd.

Moletu pl. 73,
LT-14259 Vilnius, Lithuania
Phone: +370 611 18430
Email: info@brolis-semicon.com
http://www.brolis-semicon.com

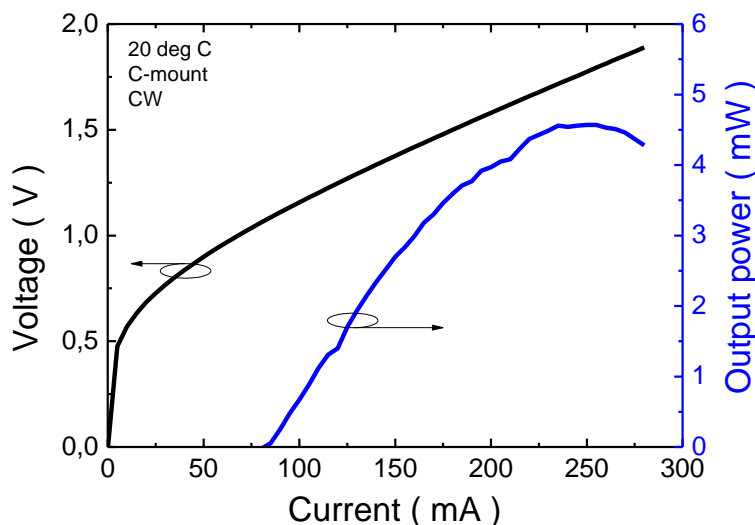


Fig. 1. Typical I - V characteristics for a 1.1 mm x 0.003 mm laser diode on a C-mount at 20 deg. C. Operation mode is CW.

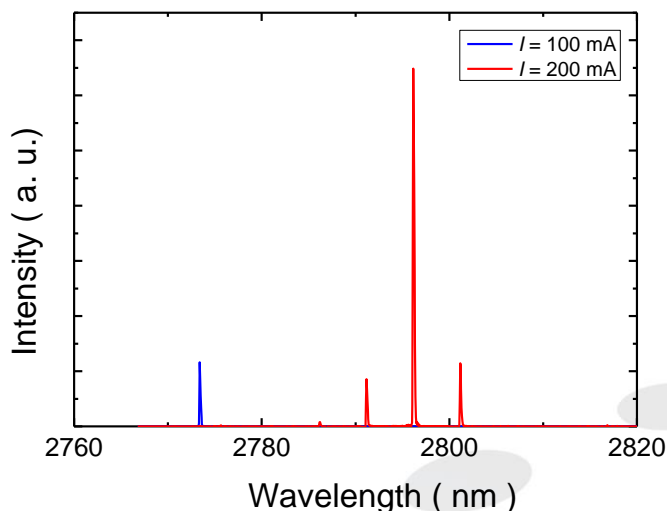


Fig. 2. Typical emission spectrum of TE00 single-spatial mode laser diode at different drive currents. Heatsink temperature is 20 deg C.

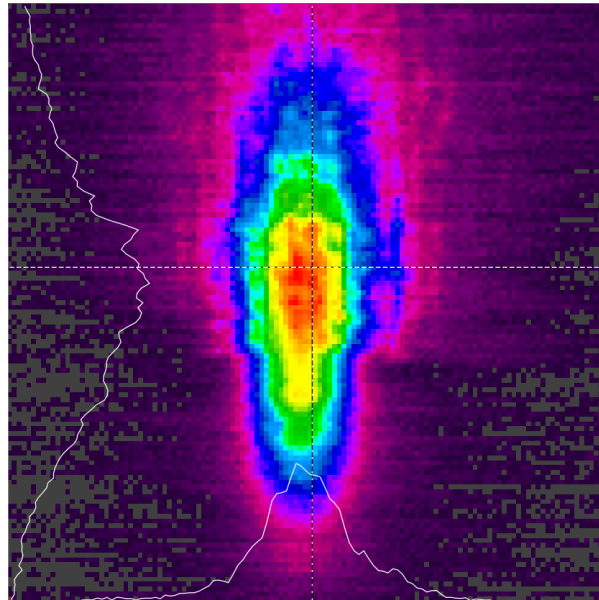


Fig. 3. Measured beam profile. Drive current is 240 mA. Heatsink temperature is 20 deg C.

Brolis semiconductors Ltd.

Moletu pl. 73,
LT-14259 Vilnius, Lithuania
Phone: +370 611 18430
Email: info@brolis-semicon.com
<http://www.brolis-semicon.com>