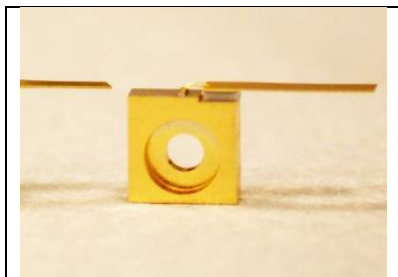




DATA SHEET: 2100 nm FABRY-PEROT LASER DIODE

Product number: FL21000079AR-BSC4434



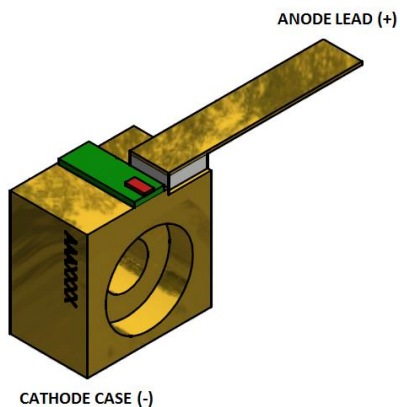
Specification*

T = 20 °C, Continuous-wave operation

Parameter	Unit	Min.	Typ.	Max.
Resonator length	mm		3	
Ridge width	µm		5	
Threshold current @ 20 °C	mA		80	
Operating current @ 20 °C	mA	0		800
Operating voltage	V	0		2
Peak output power	mW		140	150
Center wavelength @ 200 mA	nm		2080	
Beam shape and mode properties**				
Mode	Fast-axis	Slow-axis	Polarization	
Single-TE00	50 deg	24 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.**

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



Typical characteristics: C-mount package

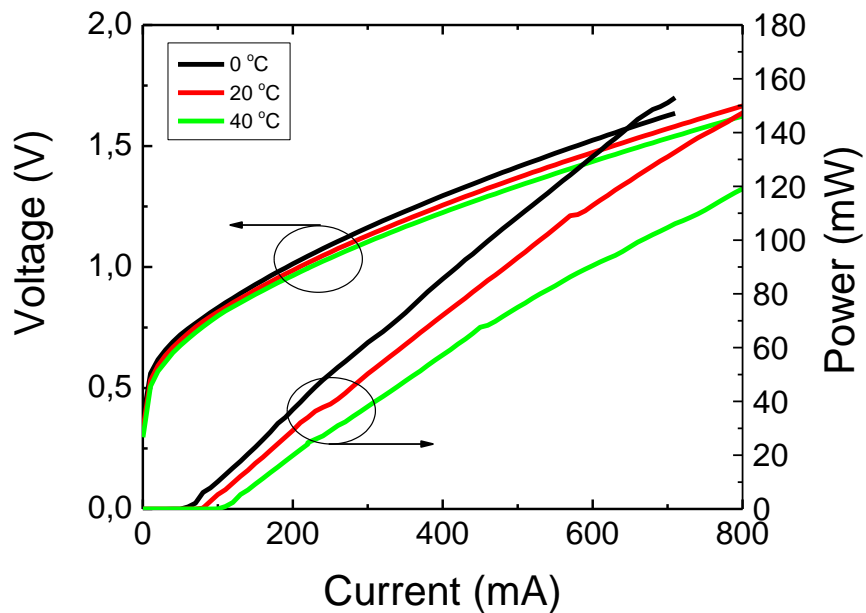


Fig. 1. Typical *L-I-V* characteristics for a 1 mm x 4 μm laser diode on a C-mount at different heatsink temperatures.

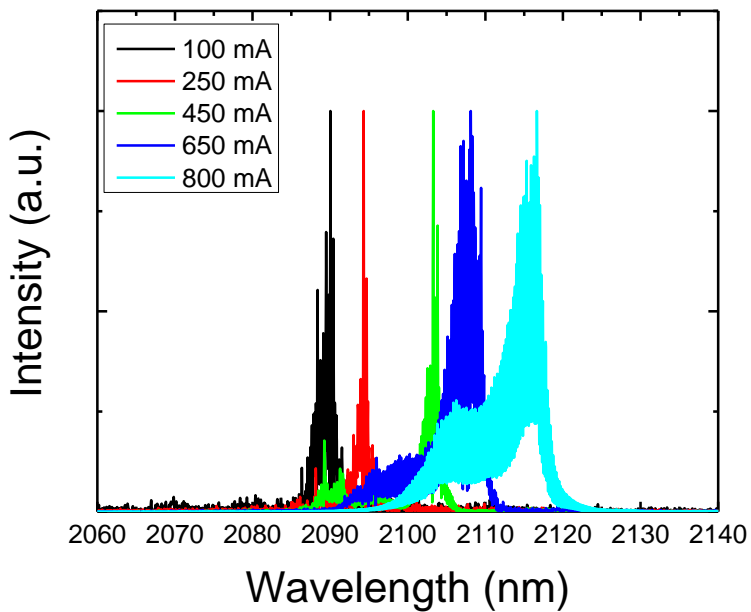


Fig. 2. Typical emission spectra at different driving current. Heatsink temperature is 20 deg C.

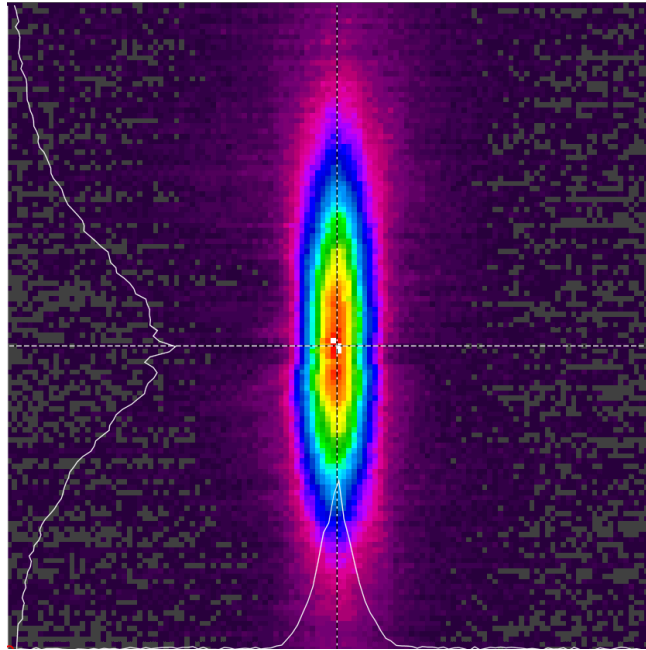


Fig. 3. Far-field beam profile. Driving current is 200mA and heatsink temperature is 20 deg C.