

DATA SHEET: 2100 nm FABRY-PEROT LASER DIODE

Product number: FL21000079AR-W120-2mm



Specification*

T = 20 °C, Continuous-wave operation

Parameter	Unit	Min.	Typ.	Max.
Resonator length	mm		2	
Ridge width	μm		120	
Threshold current @ 20 °C	mA		340	
Operating current @ 20 °C	A		4	4,5
Operating voltage	V		1,2	1,4
Peak output power	W		1	1,2
Center wavelength @ 4 A	nm	2100	2110	2120
Spectral bandwidth @ 4 A	nm	10	15	20
Beam shape and mode properties**				
Mode	Fast-axis	Slow-axis	Polarization	
Multi-mode	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

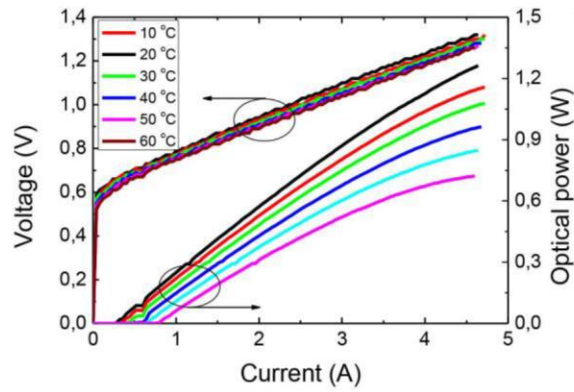


Fig. 1. Typical *L-I-V* characteristics for a 2 mm x 120 μm laser diode on a C-mount at different heatsink temperatures. Operation mode is CW.

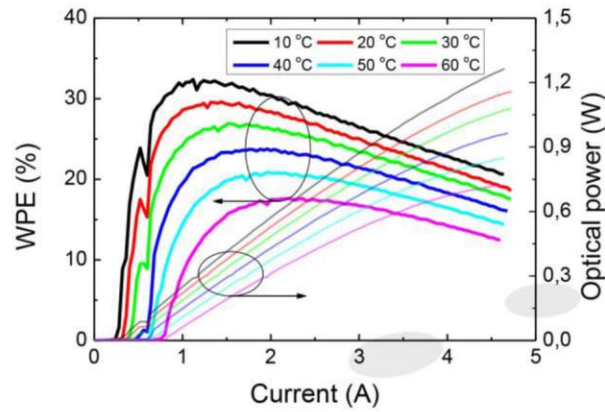


Fig. 2. Typical *L-I-WPE* characteristics for a 2 mm x 120 μm laser diode on a C-mount at different heatsink temperatures. Operation mode is CW.

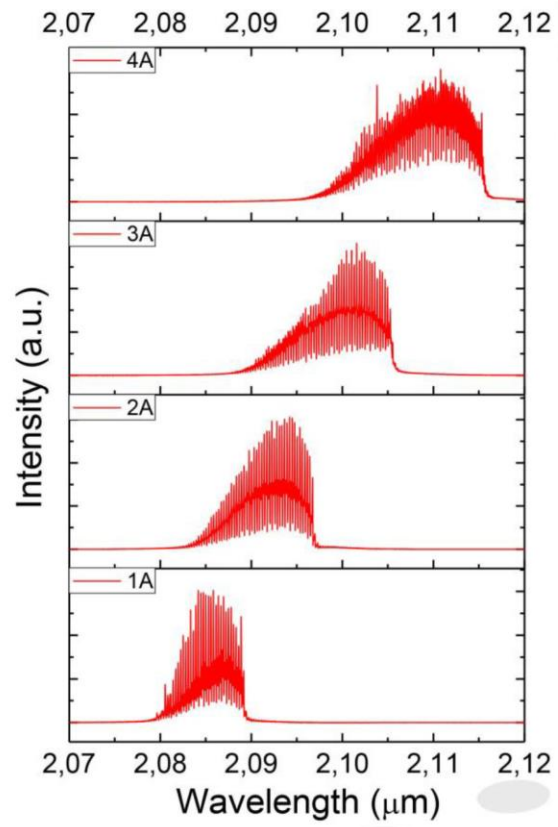


Fig. Typical emission spectra at different driving current. Heatsink temperature is 20 deg C.