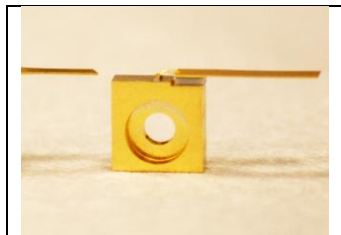


## DATA SHEET: 2450 nm single transverse mode laser diode

Product number: FL24500420B4CM



### Specification\*

T = 20 °C, Continuous-wave operation

Parameter	Unit	Min.	Typ.	Max.
Resonator length	mm		2	
Ridge width	μm	5	7	8
Threshold current	mA		100	150
Operating current	mA	0	1300	1500
Operating voltage @ 0.5 A	V	1	1.2	2
Peak output power	mW	50	75	100
Center wavelength @ 0.5 A	nm	2410	2450	2470
Spectral bandwidth	nm		5 nm	
Wavelength tuning	nm/mA	0.1	0.15	0.2

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

### Typical characteristics:

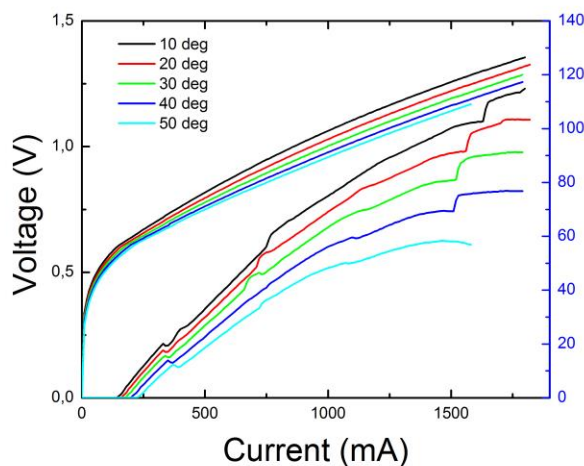


Fig. 1. Typical L-I-V characteristics for a 2 mm laser at different heatsink temperatures.

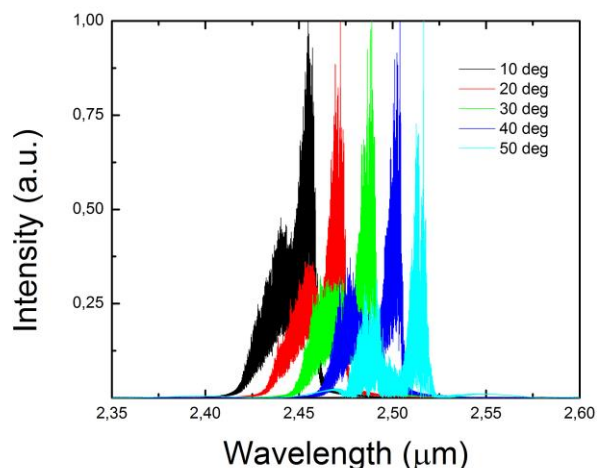


Fig. 2. Typical emission spectrum at different temperatures at 1300 mA.

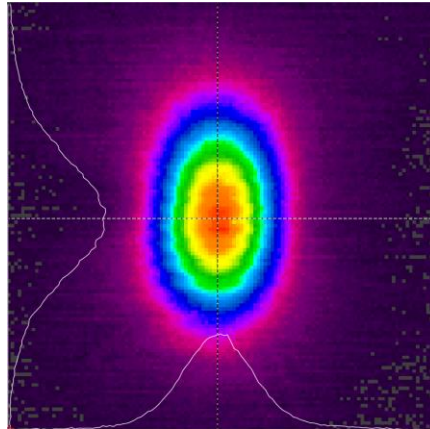


Fig.3. Registered 2D far-field profile. Drive current is 1000 mA.

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