660nm laser diode

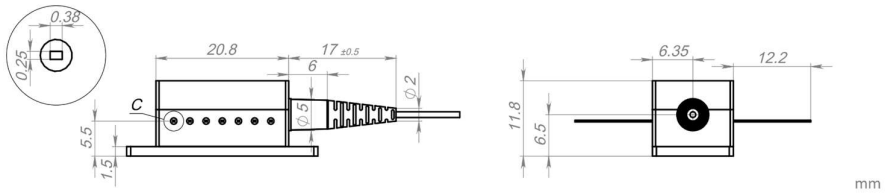
Model 1: 50mW / singlemode fiber / 14 pin Butterfly / SMF or PMF

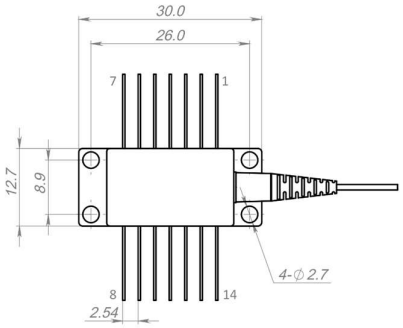
Reference: 660LD-1-0-0 (-1: SMF ; -2: PMF) Technology : Fabry-Pérot*

SPECIFICATIONS	Unit	Min	Typ	Max
Optical Power (CW)	mW	50	55	
Optical Power (pulse)	mW	120	130	
Center Wavelength	nm	655	660	665
Spectral Width (FWHM)	nm		1	3
Threshold Current	mA		60	75
Operating Current (25°C)	mA		160	162
Operating Voltage	V		2.5	3.3
TEC current	A			1.4
TEC voltage	V			3.9
Wavelength shift w Temperature	nm/°C		0.18	
Internal thermistor (25°) Rt=10*EXP(3600*{1/T(K)-1/298}) kΩ	kΩ		10	
Slope efficiency	mW/mA	0.55	0.60	
Polarization extinction ratio if Option 1: PM	dB	17		
Fiber core / NA (Option 1: PM)	3.5µ / 0.130 (3.5µ / 0.120)			
Fiber bend radius (long term)	mm	13		
Storage temperature	°C	-40		+60
Operating case temperature	°C	-20		+60
Lead soldering temperature	°C			260
Laser diode reverse voltage	V		2	
Butterfly pin configuration	Type-1			
Pigtail termination	FC/APC			
Polarization state (PM version)	Aligned to the slow axis			

*: See our tutorial: fiber coupled laser diode

Form factor & laser diode pin configuration (standard 14-pin Butterfly Type-1) :





PIN	FUNCTION	PIN	FUNCTION
1	TEC(+)	14	TEC(-)
2	THERMISTOR	13	CASE
3	NC	12	NC
4	NC	11	LD(-)
5	THERMISTOR	10	LD(+)
6	NC	9	NC
7	NC	8	NC

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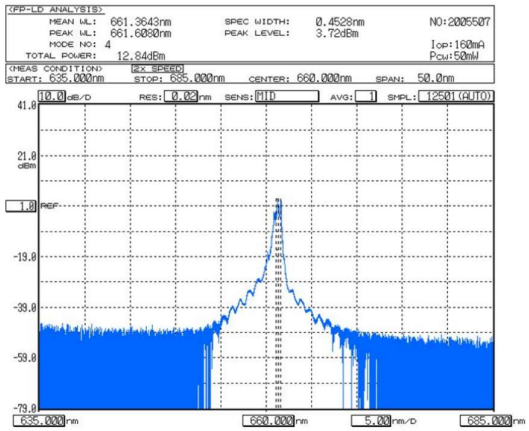
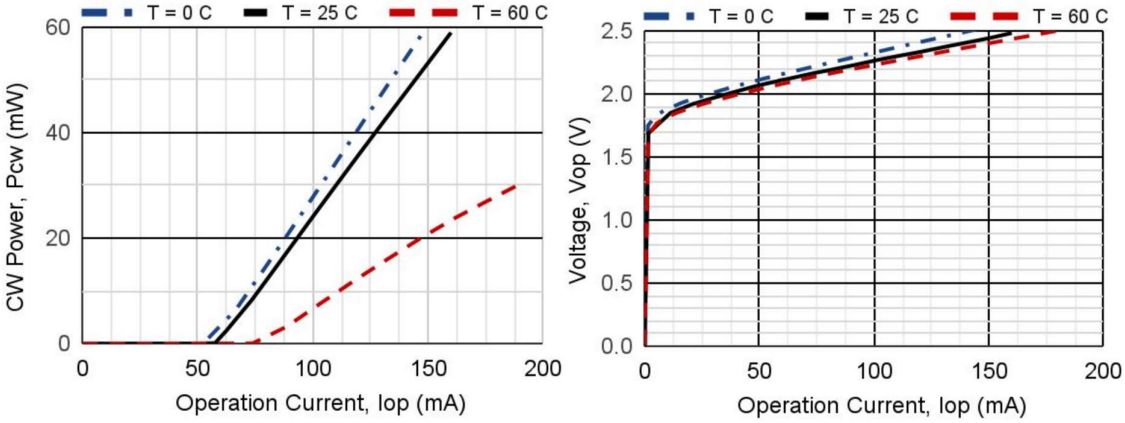
Emission spectrum & LIV





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