

660nm laser diode

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

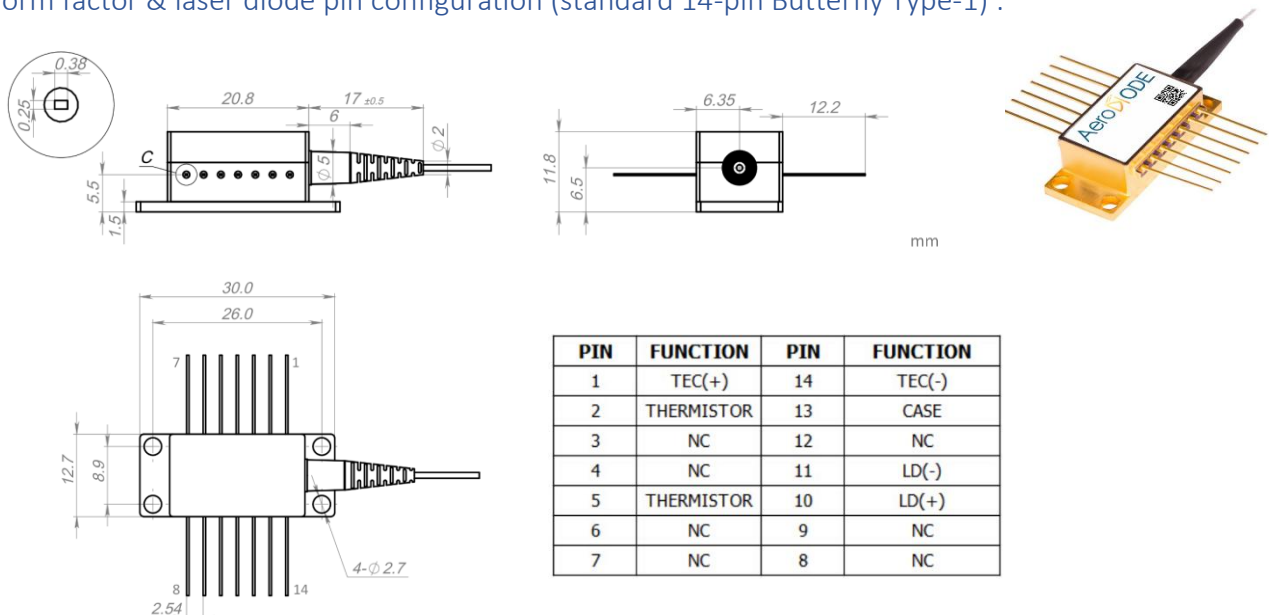
Reference: 660LD-1-0-0 (-1: SMF; -2: PMF)

Technology: Fabry-Pérot*

SPECIFICATIONS	Unit	Min	Typ	Max
Optical Power (CW)	mW	50	55	
Optical Power (pulse)	mW	120	130	
Center Wavelength	nm	650	660	670
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°) $R_t = 10 \cdot \exp(3600 \cdot \{1/T(K) - 1/298\})$ 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) :



Emission spectrum & LIV

