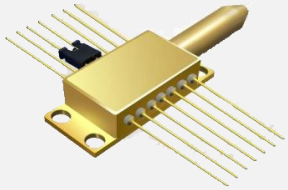
LD-785-600-BT-MM



DEVICE

785 nm LD, 600 mW, 14-pin Butterfy Package, MM Fiber

OVERVIEW

The Optilab LD-785-600-BT-MM is a 785 nm laser diode, with 14-pin butterfy package. This high-power, high-efficiency, and high-stability product is made using professional coupling technology. The product has 600 mW CW output power, 600 mW fiber output power and 105 μm 0.22 NA fiber. This laser can be used in raman spectroscopy, sensing, medical treatment, quantum photonics, optical pumping and military.

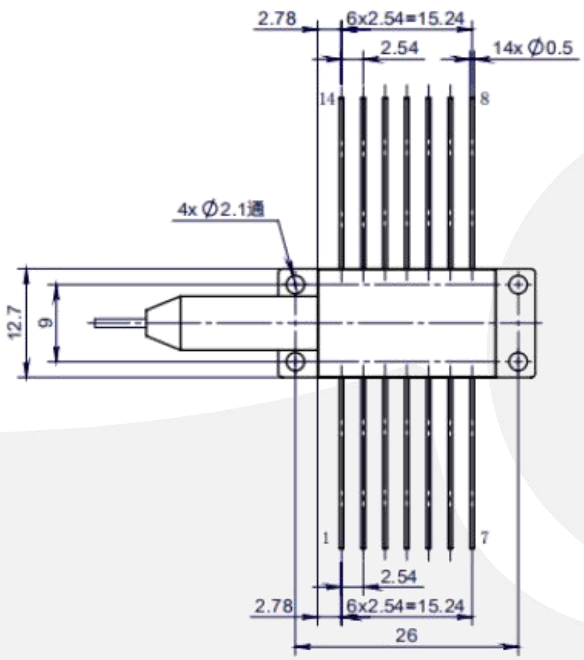
FEATURES

- 785 nm wavelength
- 600 mW CW output power
- Core diameter 105 μm
- 0.22 NA
- Narrow Linewidth

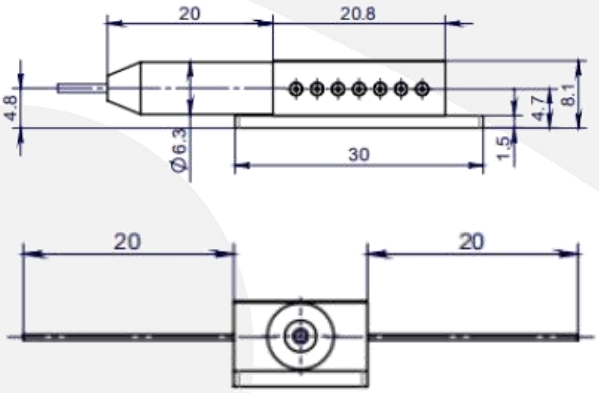
USE IN

- Raman spectroscopy
- Sensing
- Quantum photonics
- Medical treatment
- Optical pumping
- Military

MECHANICAL DRAWING



Unit: mm



PIN	Description	PIN	Description
1	TEC (+)	8	NC
2	Thermistor	9	NC
3	PD (+)	10	LD (+)
4	PD (-)	11	LD (-)
5	Thermistor	12	NC
6	NC	13	Housing
7	NC	14	TEC (-)

LD-785-600-BT-MM

SPECIFICATIONS

Optical Data	Laser Type	Fabry-Perot
	CW-Output Power	600 mW min.
	Center Wavelength	785±0.5 nm
	Spectral Width	0.1 nm max.
	Wavelength Shift with Temperature	0.01 nm/°C typ.
Electrical Data	Electrical-to-Optical Efficiency	30% typ.
	Operating Current	1.1 A typ.; 1.5 A max.
	Threshold Current	0.4 A typ.
	Operating Voltage	1.9 V typ.; 2.2 V max.
	Slope Efficiency	1.0 W/A typ.
	TEC Current	2.2 A max.
	TEC Voltage	8.75 V max.
	PD Current	300 μA min.; 500 μA max.
	Thermistor	10±3%/3477 (KΩ)/β(25 °C)
Fiber Data	Core Diameter	105 μm typ.
	Cladding Diameter	125 μm typ.
	Buffer Diameter	0.9 mm
	Numerical Aperture	0.22 NA typ.
	Total Fiber Length	1 m (Standard) typ.
	Bending Radius	50 mm min.
	Connector	FC
Others	ESD	500 V max.
	Operating Case Temperature	20 °C to +30 °C
	Storage Temperature	-20 °C to +70 °C
	Operating Humidity	15% to 75%