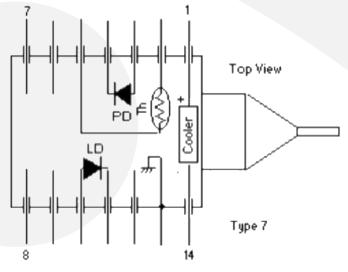


#### FUNCTIONAL DIAGRAM

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





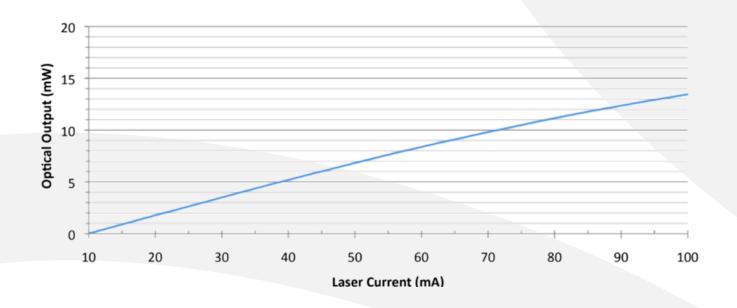


	Center Wavelength	1530 nm – 1560 nm
SPECIFICATIONS	Optical Output Power	12 mW min.
	Operating Current	150 mA max. 🖻 CW
	Forward Voltage	2.5 V typ.
	Series Resistance	25 Ω typ.
	Threshold Current	25 mA typ.
	Monitor Current	0.10 mA min., 1.0 mA max.
	Photodiode Dark Current	2 nA typ., 100 nA max.
GENERAL	Side Mode Suppression	30 dB typ.
	Spectral Width	10 nm max.
	Optical Isolation (optional)	30 dB typ.
	Relative Intensity Noise	-145 dB/Hz max.
	Polarization Extinction Ratio	20 dB typ.
		1040 - 0040
MECHANICAL	Operating Temperature	-10°C to +60 °C
	Storage Temperature	-40°C to +70 °C
	Operating Humidity	95% @ < 30 °C Panda PM
	Optical Fiber Type Optical Connector	FC/APC, other available
TEC AND THERMISTOR	TEC Current	1.0 A max.
CHARACTERISTICS	TEC Voltage	2.4 V max.
	TEC Resistance	2.4 Ω typ.
	Thermistor Resistance	7.7 k Ω min., 12.6 k Ω max.
	Thermistor B Constant	3,270 K min., 3,450 K typ., 3,630 K max
	Reverse Voltage	2 V
ABSOLUTE MAXIMUM RATING	Operating Current	200 mA
	PD Reverse Voltage	20 V
	PD Forward Current	10 mA
	TEC Voltage	4 V
	TEC Current	4 A

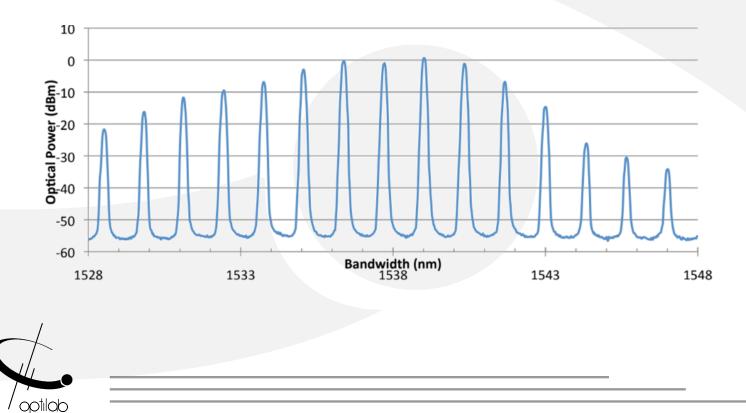




# TYPICAL LASER DIODE LI CURVE @ 25°C

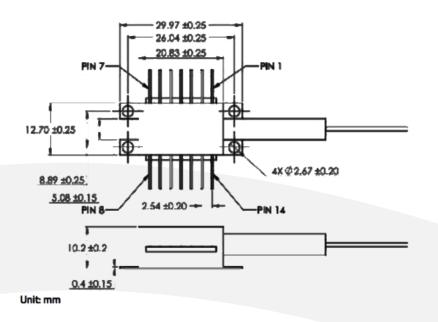


# TYPICAL OPTICAL SPECTRUM @ 25°C @ 10 mW





#### MECHANICAL DRAWING



# ORDERING OPTIONS

#### LD-15xx-yy-zz

- **xx:** Wavelength in nm
- yy: PM for PM, None for SM
- zz: Output Power in mW: 20, 30

# AVAILABLE ACCESSORIES

# UNIVERAL LASER DIODE CONTROLLER (ULDC)



ULDC is a fully integrated laser diode controller with precise current and temperature setting. With a Zero Insertion Force (ZIF) adaptor, ULDC can be used with all 14 pin laser diodes.

#### FP LASER SOURCE MODULE, POLARIZATION MAINTAINING



The LD-1550 can be ordered as a modular solution which allows the laser's operating temperature and output power precisely controlled to ensure constant wavelength and power stability. It can be used for module level integration system.

