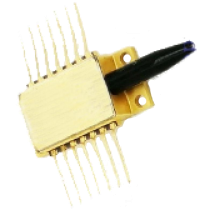


1105 LED Short Wavelength

LD-945-180-BT-SM



945 nm Laser Diode, 180 mW, SM Fiber

The LD-945-180-BT-SM is a 945 nm fiber coupled diode laser, available with up to 180 mW of continuous output power, with SM Fiber fiber. It features in a high brightness and offers excellent stability and reliability. This laser chip design offers un-measurable degradation and long lifetimes. Our 945 nm SM Fiber line serves a broad range of applications including optical data storage and laser ranging.

FEATURES

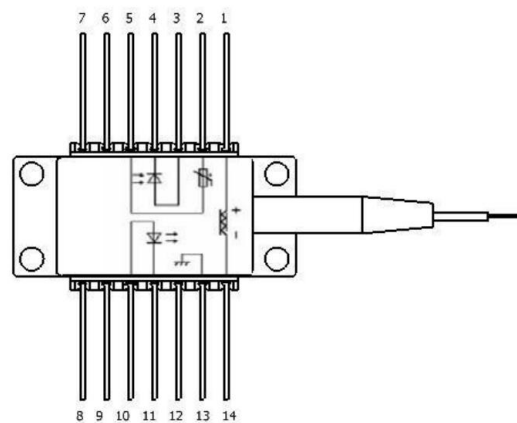
- Up to 180 mW CW Output Power
- Epoxy-free, and Flux-free
- 14-PIN Butterfly Package
- Integrated Thermoelectric Cooler, Thermistor and Monitor Diode

USE IN

- Optical Data Storage
- Laser Ranging

FUNCTIONAL DIAGRAM

Pin#	Desc	Pin#	Desc
1	TEC+	8	NC
2	Thermistor	9	NC
3	PD+	10	LD+
4	PD-	11	LD-
5	Thermistor	12	NC
6	NC	13	Case Ground
7	NC	14	TEC-

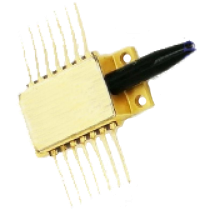


Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

- 1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.
- 2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.

1105 LED Short Wavelength

LD-945-180-BT-SM



CW-Output Power	180 mW
Center Wavelength	945±5 nm
Spectral Width	0.5 nm max.; 2.0 nm max.
Operating Current	370 mA typ.; 420 mA max.
Threshold Current	30 mA typ.; 50 mA max.
Operating Voltage	1.9 V typ.; 2.2 V max.
Kink-Free Power	330 mW min.
Vertical Far Field	28 deg, FWHM typ.; 30 deg, FWHM max.
Parallel Far Field	8 deg, FWHM typ.; 10 deg, FWHM max.
Threshold	30 mA typ.; 50 mA max.
Slope Efficiency	0.8 W/A min.; 0.9 W/A typ.
Monitor Responsivity Stability	20 %
Monitor Dark Current	50 nA max.
TEC Current	2 A max.
TEC Voltage	3.5 V max.
TEC Modul Power Consumption	5 W max.
Fiber Type	SM Fiber
Operating Temperature	-20 °C to +50 °C
Storage Temperature	-40 °C to +80 °C

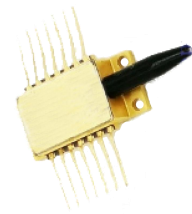
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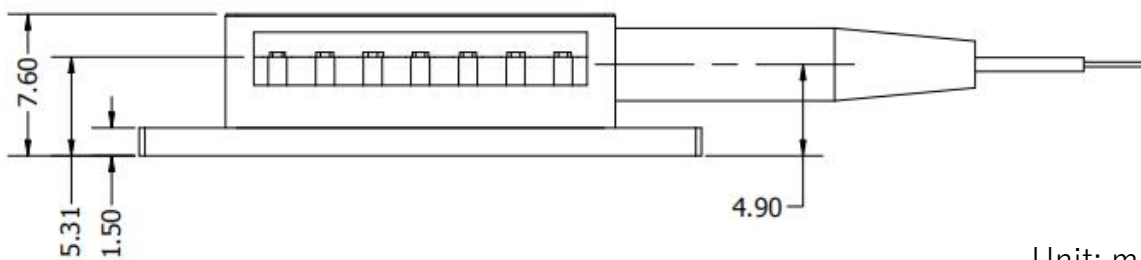
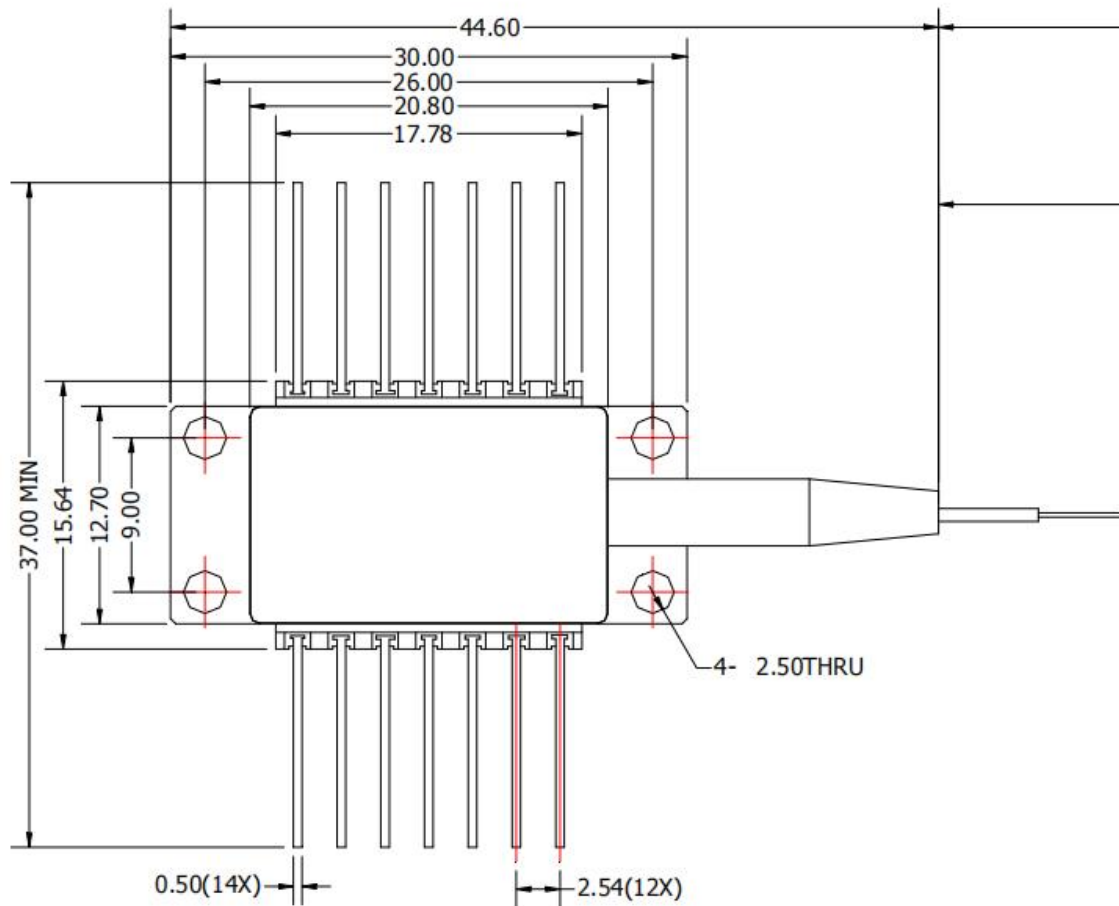
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1105 LED Short Wavelength

LD-945-180-BT-SM



MECHANICAL DRAWING



Unit: mm

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