

HL6322G



### Description

This 635 nm, 15 mW TO packaged laser diode is a compact light source that outputs a single transverse mode and is suited for a variety of applications such as a laser leveler, laser module, or a light source for optical equipment. It is packaged in a standard Ø9 mm TO can package and has an A pin configuration. This laser diode is compatible with our line of laser diode and TEC controllers as well as our selection of collimation solutions and TO can laser diode mounts.

### Specifications

Absolute Maximum Ratings <sup>a</sup>	
Specification	Maximum
Optical Output Power, CW	15 mW
LD Reverse Voltage	2 V
PD Reverse Voltage	30 V
Operating Temperature	-10 °C to 50 °C
Storage Temperature	-40 °C to 85 °C



- a. Absolute Maximum Rating specifications should never be exceeded. Operating at or beyond these conditions can permanently damage the laser.

HL6322G Specifications <sup>a</sup>					
		Symbol	Min	Typical	Max
Center Wavelength @ P <sub>op</sub> <sup>b</sup>		λ <sub>o</sub>	625 nm	635 nm	640 nm
Threshold Current		I <sub>TH</sub>	-	50 mA	70 mA
Operating Current, CW @ P <sub>op</sub> <sup>b</sup>		I <sub>op</sub>	-	75 mA	100 mA
Operating Voltage @ P <sub>op</sub> <sup>b</sup>		V <sub>op</sub>	-	2.4 V	3.0 V
Slope Efficiency		η	-	0.5 mW/mA	-
Astigmatism @ P <sub>op</sub> <sup>b</sup>		A <sub>s</sub>	-	5 μm	-
Beam Divergence (FWHM) @ P <sub>op</sub> <sup>b</sup>	Parallel	θ <sub>//</sub>	6 °	8 °	11 °
	Perpendicular	θ <sub>⊥</sub>	25 °	30 °	36 °
Monitor Current @ P <sub>op</sub> <sup>b</sup>		I <sub>PD</sub>	0.1 mA	0.18 mA	0.4 mA

- a. T<sub>CASE</sub> = 25 °C if not specified.  
b. P<sub>op</sub> = 15 mW

## Drawing

