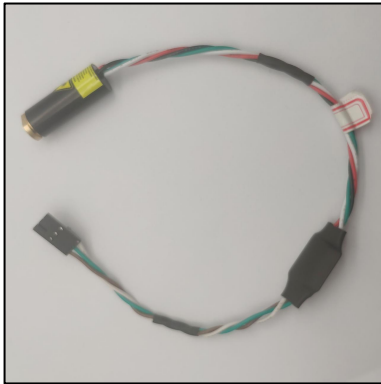


Green Laser Module TTL/PWM Modulation

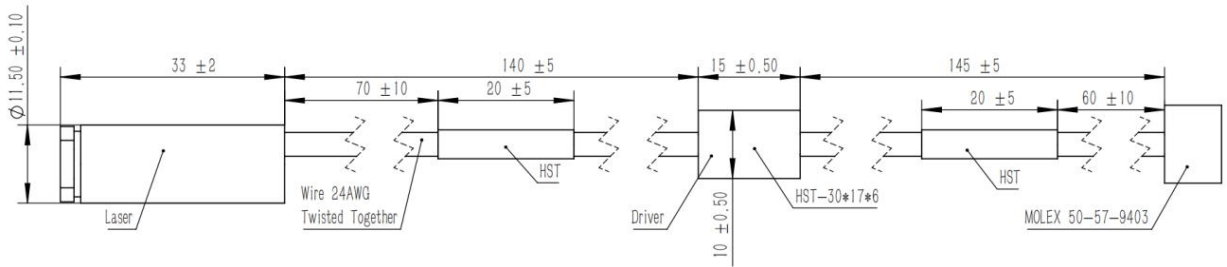


G532D005-11.5x33-1.5-(15-35)-10

Features

- Focusable
- Fast Rise Time
- High Reliability
- Reverse Voltage Protection
- Modulation and CW options

Dimensions (Unit: mm)



Specifications

Model Number		G532D005-11.5x33-1.5-(15-35)-10		
Mechanical Specifications		Min	Typ	Max
Laser Head	Diameter (mm)	11.4	11.5	11.6
	Length (mm)	31	-	35
	Weight (g)	-	-	20
PCB / Driver	Width (mm)	9.5	10	10.5
	Length (mm)	14.5	15	15.5
Housing Material		Black Anodized Aluminum		
Optical Specifications		Min	Typ	Max
Wavelength (nm)		530	532	534
Output Power (mW)		-	-	< 5.0
Power Stability	at 25 °C & 0% Duty-cycle	4.6	-	4.9
	over Temperature Range	3.3	-	4.9
Output Power Mode		PWM		
Laser Class		3R		

Beam Specifications		Min	Typ	Max
Beam Divergence at Focus Position (mrad)		-	-	1.5
Beam Alignment Tolerance	Position (Δr , mm) ⁽¹⁾	-	0.3	0.5
	Off-axis Angle (mrad) ⁽²⁾	-	30	40
Beam Diameter at Output Window (mm) ⁽³⁾		-	-	1.0
Beam Roundness		70%	-	100%
Beam Mode Longitude		Multi		
Beam Mode Transverse		Near TEM00		
Residual IR (%)		-	-	4%
Polarization Ratio		100:1	-	-
Electrical Specifications		Min	Typ	Max
PCB Type		APC, TTL/PWM 0%-100%		
Voltage (DC, V)		4.5	5.0	30.0
Operating Current (mA) at 5V		-	-	300
Housing Isolation		Yes		
Modulation Voltage (DC, V)		4.9	5.0	5.1
Modulation Frequency (KHz)		3.0 (Green Wire)		
ESD protection		No		
Wire Length (mm)		See Drawing on page 1		
Wire Type		24AWG		
Connector Model		MOLEX 50-57-9403		
Reverse Voltage Protection		Yes (Brown: V+, White: V-)		
Reliability		Min	Typ	Max
Operating Case Temperature Range (°C)		15	25	35
Rise Time (Seconds)		-	0.2	0.5
Storage Temperature (°C)		-20	-	60
Environmental Humidity (RH, %)		5	-	85
Lifetime (hours) (MTTF at 25°C)		5,000	-	-
RoHS Compliance Declaration		Yes		

(1) at Output Window

(2) Full Angle

(3) at Minimum Divergence