

Green Laser Module

Wide Temperature Range



G532D001-1120-12.5-(-10-50)-00

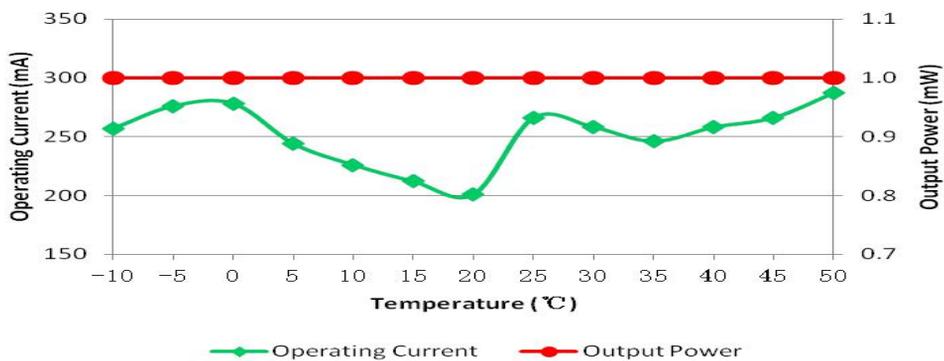
Applications

- Surveying Equipment
- Laser Alignment
- Laser Aiming

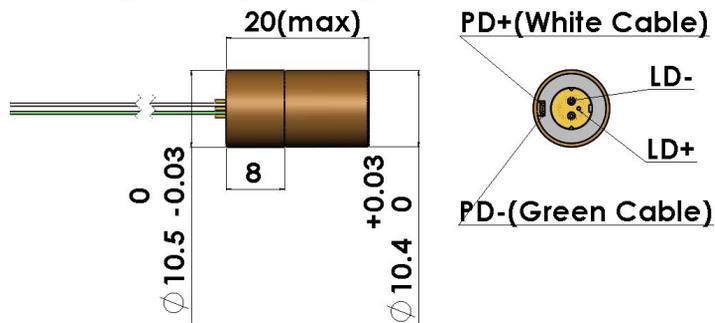
Features

- Wide Temperature Range
- Fast Rise Time
- Mini Size
- High Reliability

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)



Specifications

Model Number		G532D001-1120-12.5-(-10-50)-00			
Mechanical Specifications		Specs			Conditions
		Min	Typ	Max	
. Laser Head	Diameter (mm)	10.47	10.48	10.5	
	Length (mm)	19.5	19.6	20	
	Weight (g)	-	-	7	
Optical Specifications					
. Wavelength (nm)		530	532	534	
. Output Power (mW)		-	0.75	-	
. Power Stability at 25 °C		-	+/- 2%	+/- 5%	
. Power Stability over operating temperature range		-	+/- 15%	+/- 33%	
. Output Power Mode		-	CW	-	
. Residual IR (%)		-	-	4%	
. Beam Roundness		70%	-	100%	
. Beam Quality (M2)		-	1.2	1.4	
. Beam Diameter (mm)		-	0.1	-	At output window
. Beam Divergence (mrad)		10	12.5	17	Full angle, 1/e ²
. Beam Alignment Tolerance Position (Δr , mm)		-	0.3	0.5	At output window
. Beam Alignment Tolerance Angle (mrad)		-	20	30	Full angle
Electrical Specifications					
. Isolation (Yes/No)		No			
. LD Working Voltage (DC, V)		1.9	2.0	2.1	
. LD Working Current (mA)		-	-	350	
. Monitor Current (uA)		2	-	75	
Reliability					
. Operating Case Temperature (°C)		-10	25	50	
. Warm up time (secs)		-	0.2	0.5	to 75% of full power
. Shock		1000 g , 1 ms , 6 shocks			3 axes , 2 shocks/axis
. Vibration		20 ~ 2000 Hz , 0.02 g ² /Hz			3 axes , 1 hr/axis
. Environmental Humidity (RH, %)		5	-	85	
. Storage Temperature (°C)		-20	-	60	
. Lifetime (hours)		5000	-	-	MTTF at 25 °C