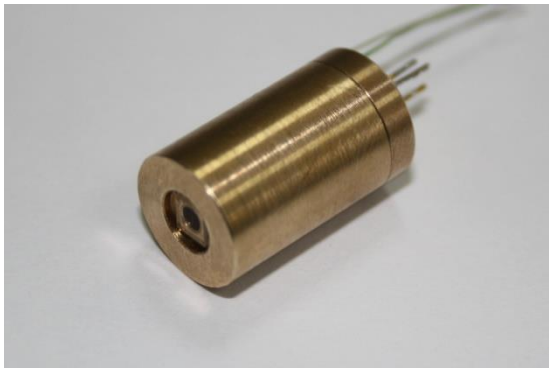
GLM-532-005-X-1235-APC

Green Laser Module with APC

Features



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

Applications

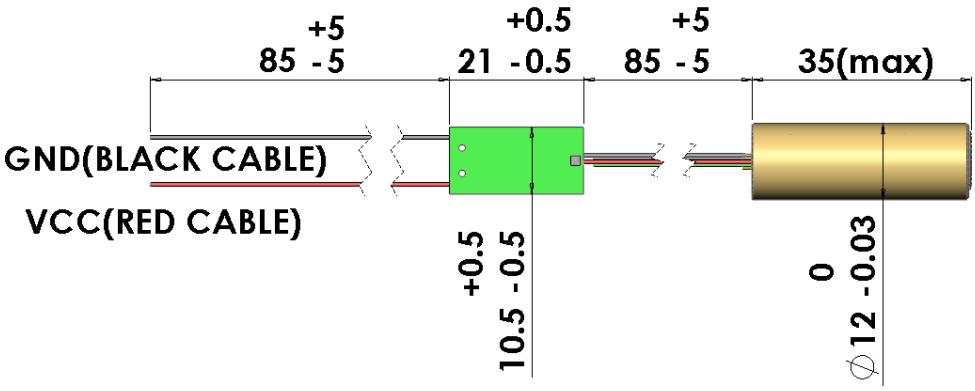
- Surveying Equipment
- Laser Alignment
- Laser Aiming

Temperature Range (X)

A = 0 – 40 °C **C** = -10 – 50 °C

B = 10 – 50 °C **D** = -30 – 50 °C

Dimensions and Pin Configurations (mm)



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Specifications					
Model Number		**GLM-532-005-X-1235-APC**			
Mechanical Specifications		***Specs***			***Conditions***
		Min	***Typ***	***Max***	
Laser Head	Diameter (mm)	11.97	11.99	12.00	
	Length (mm)	34.0	34.5	35.0	
	Weight (g)	-	-	20	
PCB Size	Width (mm)	10.0	10.5	11.0	
	Length (mm)	20.5	21.0	21.5	
Optical Specifications					
Wavelength (nm)		528	530	532	
Output Power (mW)		-	5	-	Laser Class 3R
Power Stability at 25 °C		-	+/- 2%	+/- 5%	
Power Stability over operating temp. range		-	+/- 12%	+/- 20%	
Output Power Mode		-	CW	-	
Residual IR		-	-	4%	
Beam Roundness		70%	-	100%	
Beam Quality (M^2)		-	1.2	1.4	
Beam Diameter (mm)		-	0.8	-	at output Window
Beam Divergence (mrad)		1.4	1.7	2.0	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					
LD Working Voltage (DC, V)		2.5	3.0	6.5	
LD Working Current (mA)		110	230	350	
Reliability					
Warm up time (seconds)		-	0.2	0.5	to 75% of full power
Shock		1000g, 1 ms, 6 shocks			3 axes, 2x / axis
Vibration		20~2000Hz, $0.02g^2/Hz$			3 axes, 1hr / axis
Environmental Humidity (RH, %)		5	-	85	
Storage Temperature (°C)		-20	-	60	
Lifetime (hours)		5000	-	-	MTTF at 25 °C

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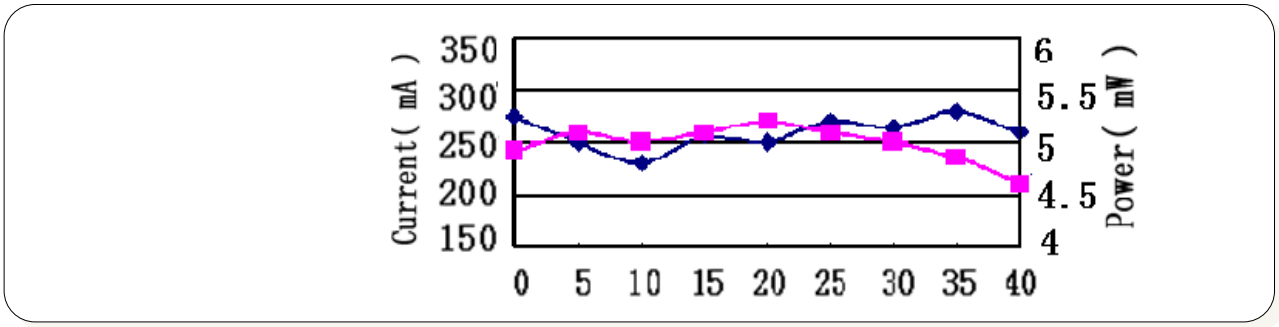
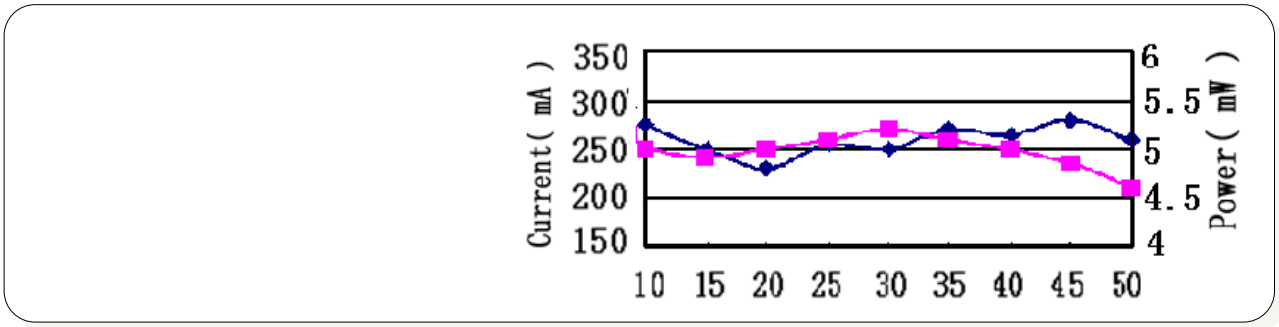
Typical Output Performance

Operating Current (mA)
Output Power (mW)

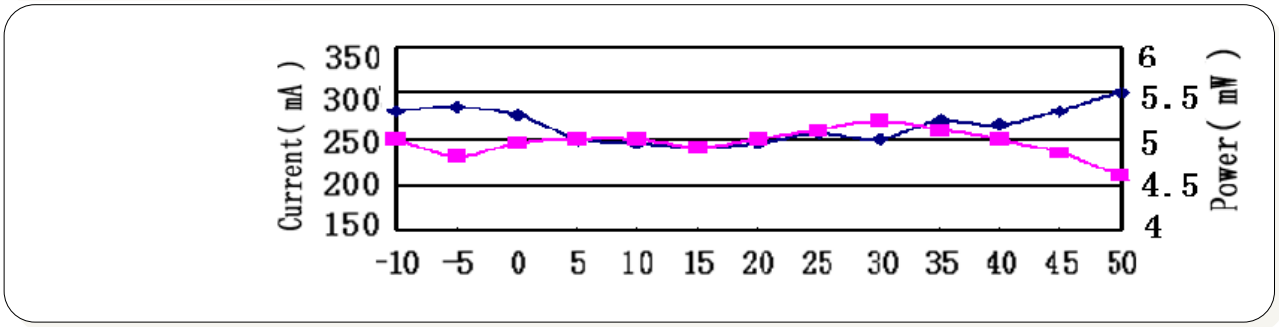
A = 0 – 40 deg C



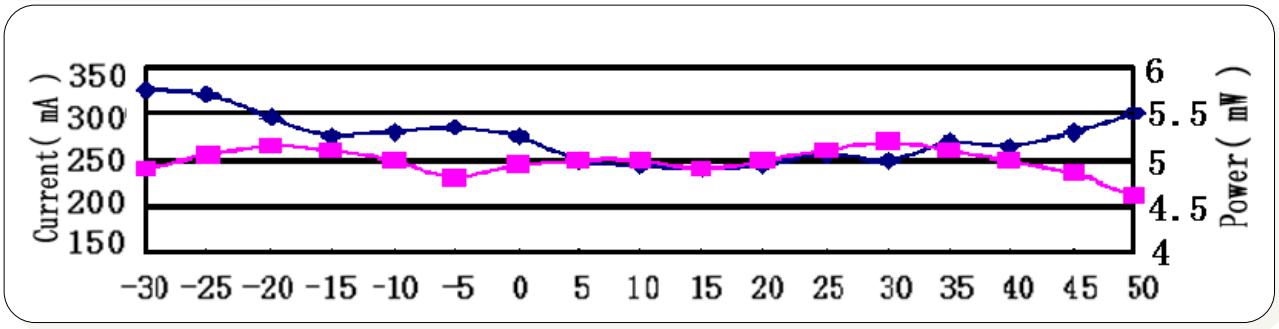
B = 10 – 50 deg C



C = -10 – 50 deg C



D = -30 – 50 deg C



Remarks: typical curve is measured by Lasence electronics (PCB)

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