PHOTOP
SUBSIDIARY OF II-VI INCORPORATED

GDL-8-0200-WTB

Key Featrues:
Mini Size
Mode-Hopping Suppression
Low Cost
Auto Power Control Function
High Reliability

Applications:
Laser Display
Surveying Equipment
Laser Alignment & Pointing

Model Number		**GDL-8-0200-WTB**			
Optical Parameters		**Photop Specs**			**Conditions**
		Min	**Typ**	**Max**	
Wavelength		531nm	532nm	533nm	
Output Power		100mW	200mW	300mW	>150mW@10~35°C >100mW@5~10°C&35~40°C
Power Stability	2hours @ Constant Temp	-	+/-2%	+/-5%	APC
	Over Operating Temp Range	-	+/-10%	+/-50%	
Operating Temperature (Case)		5~+40 °C	-	-	APC
Residual IR		-	-	0.2%	
Beam Diameter		-	0.2mm	-	At output window
Beam Divergence		-	9.5mrad	12mrad	Full angle, 1/e^2
Roundness		70%	85%	100%	
M-Square		-	1.6	2.0	
Electrical Parameters					
LD Working Current		-	1200mA①	2200mA	5~+40 °C
LD Working Voltage		1.9V	2.2V	3.0V	
Monitor Current		0.64mA	1.8mA	2.5mA	200mW @ 25 °C
GDL Power Consumption		-	2.64W②	6.6W	5~+40 °C
Mechanical Parameters					
Laser Head Dimensions	Length	-	22.2mm	22.7mm	
	Diameter	12.00mm	12.01mm	12.05mm	
Beam Alignment Tolerance	Position(Δr)	-	0.2mm	0.3mm	
	Angle	-	10mrad	17.5mrad	
Laser Weight		-	5.6g	-	
Reliability					
Operating Humidity		-	5%~85% R.H.	-	
Storage Temperature		-	-40 to +85 °C	-	
Shock		-	1500g, 0.5ms, 6 shocks	-	3 axes, 2 shocks/axis
Vibration		-	20~2000Hz, 0.02g^2/Hz	-	3 axes, 1hr/axis
Expected Lifetime (MTTF)		2000hrs	-	-	Room temperature

① 200mW @ 25 °C

② 200mW @ 25 °C

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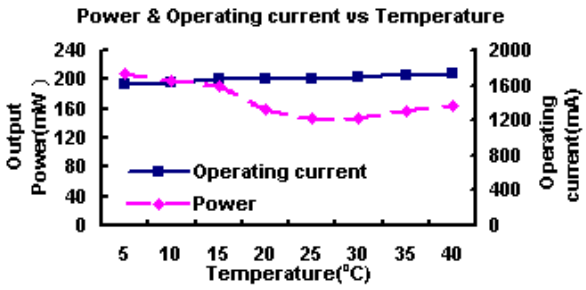
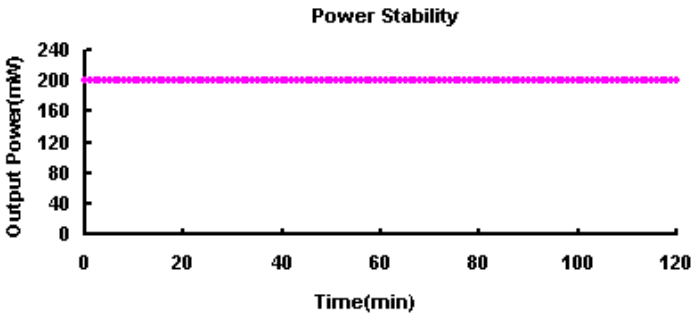
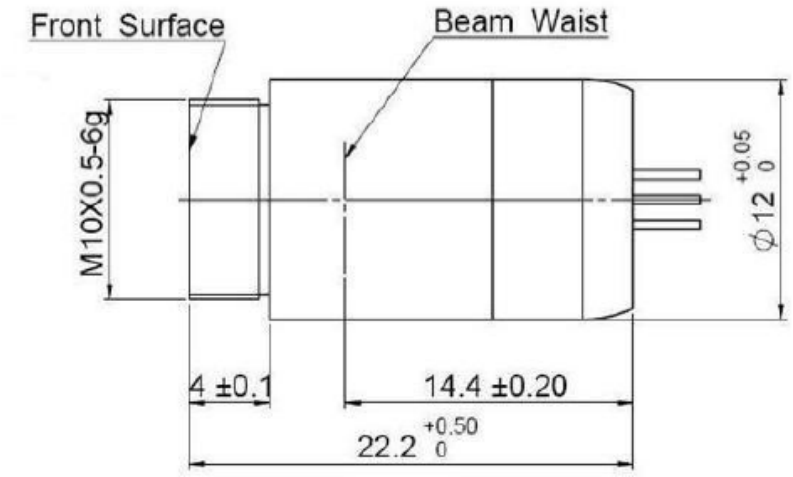
Rev. A

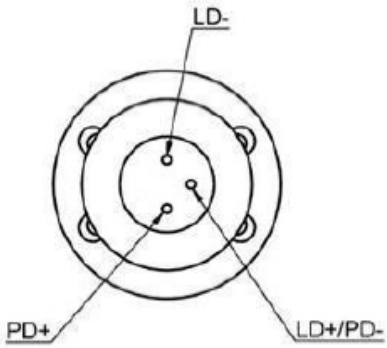
Typical Output Performance





Dimensions and Pin Configuration (Unit: mm)





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