

## GDL-8-0300-WTC


**Key Features:**

Mini Size

Low Cost

Auto Power Control Function

High Reliability

**Applications:**

Laser Display

Surveying Equipment

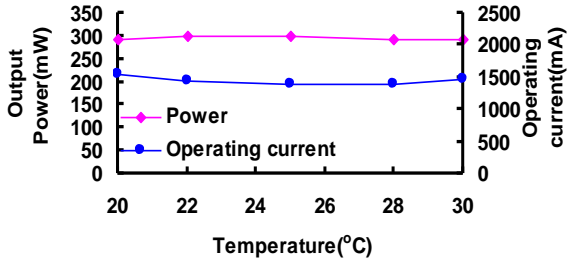
Laser Alignment &amp; Pointing

Model Number		GDL-8-0300-WTC			
Optical Parameters		Specs			Conditions
		Min	Typ	Max	
Wavelength		531nm	532nm	533nm	
Output Power		225mW	300mW	375mW	At recommended temperature
Power Stability	2hours @ Constant Temp	-	+/-2%	+/-5%	Warm-up time<5s (APC)
	Over Operating Temp Range	-	+/-10%	+/-25%	
Operating Temperature (Case)		-	20~30°C <sup>①</sup>	-	APC
Residual IR		-	-	0.2%	
Beam Diameter		-	0.2mm	-	At output window
Beam Divergence		-	10mrad	13mrad	Full angle, 1/e <sup>2</sup>
Roundness		70%	85%	100%	
M-Square		-	2	2.5	
<b>Electrical Parameters</b>					
LD Working Current		-	1400mA	1600mA	
LD Working Voltage		1.9V	2.3V	3V	
Monitor Current		1mA	2.7mA	3.7mA	300mW at recommended temperature
GDL Power Consumption		-	3.2W	4.8W	
<b>Mechanical Parameters</b>					
Laser Head Dimensions	Length	-	22.2mm	22.7mm	
	Diameter	12.00mm	12.01mm	12.05mm	
Beam Alignment Tolerance	Position( $\Delta r$ )	-	0.2mm	0.3mm	
	Angle	-	10mrad	17.5mrad	
Laser Weight		-	5.6g	-	
<b>Reliability</b>					
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 <sup>2</sup> /Hz	-	3 axes, 1hr/axis
Expected Lifetime (MTTF)		2000hrs	-	-	Room temperature

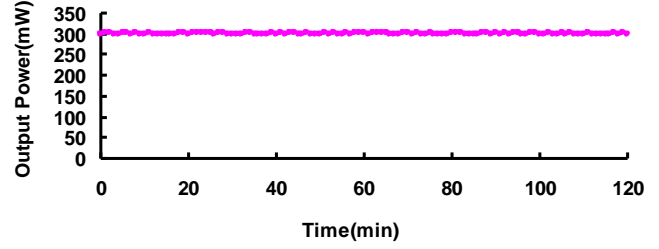
 Note: <sup>①</sup> Recommended temperature

## Typical Output Performance

Power & Operating current vs Temperature



Power Stability



## Dimensions and Pin Configuration (Unit: mm)

