

GDL-A-0020-WTA-00


Key Features:

High Reliability
 Compactable size
 Auto Power Control
 Low Power Consumption
 Wide Operating Temperature

Applications:

Laser Display
 Surveying Equipment
 Laser Alignment & Pointing

| Model Number | | GDL-A-0020-WTA-00 | | | |
|------------------------------|---------------------------|-------------------|-----------------------------------|----------|------------------------------|
| Optical Parameters | | Specs | | | Conditions |
| | | Min | Typ | Max | |
| Wavelength | | 531nm | 532nm | 533nm | |
| Output Power | | 19mW | 20mW ^① | 21mW | @25 °C |
| Power | 2hours @ Constant Temp | - | - | +/-5% | APC |
| Stability | Over Operating Temp Range | - | - | +/-25% | |
| Operating Temperature (Case) | | 5~+45 °C | - | - | APC |
| Residual IR | | - | - | 1% | |
| Beam Diameter | | - | - | 0.2mm | @Output window |
| Beam Divergence | | - | 6.6mrad | 8.6mrad | Full angle, 1/e ² |
| Roundness | | 70% | 80% | 100% | |
| M-Square | | - | 1.2 | 1.4 | |
| Electrical Parameters | | | | | |
| LD Working Current | | - | 380mA ^② | 600mA | |
| LD Working Voltage | | 1.6V | 1.9V | 2.2V | |
| Monitor Current | | 50uA | - | 300uA | |
| GDL Power Consumption | | - | 0.73W ^③ | 1.32W | |
| Mechanical Parameters | | | | | |
| Laser Head Dimensions | Length | 17.4mm | 17.6mm | 17.8mm | |
| | Diameter | 10.4mm | 10.5mm | 10.6mm | |
| Beam Alignment Tolerance | Position(Δr) | - | 0.3mm | 0.5mm | |
| | Angle | - | 7mrad | 17.5mrad | |
| Laser Weight | | - | 6.4g | - | |
| Reliability | | | | | |
| Storage Humidity | | - | 5%~85% R.H. ^④ | - | |
| Storage Temperature | | - | -20 to +60 °C | - | |
| Shock | | - | 1000g, 1ms, 6 shocks | - | 3 axes, 2 shocks/axis |
| Vibration | | - | 20~2000Hz, 0.02g ² /Hz | - | 3 axes, 1hr/axis |
| Expected Lifetime (MTTF) | | 5000hrs | - | - | @Rated Power & Room Temp |

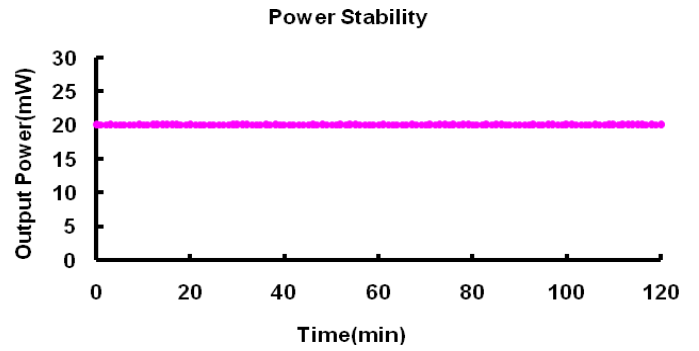
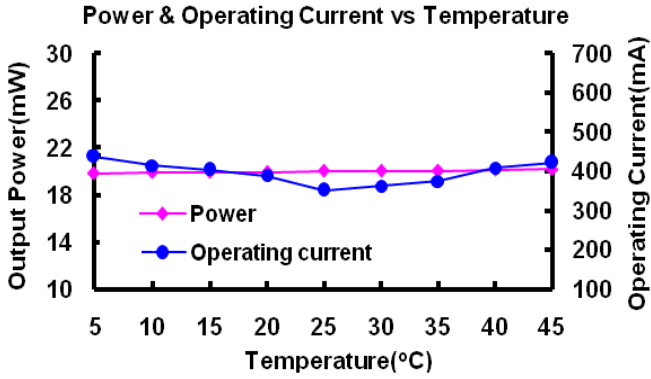
 Note: ^①10~30mW is optional

^②20mW at 25 °C

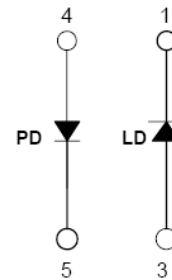
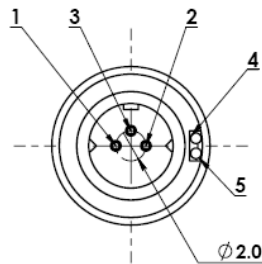
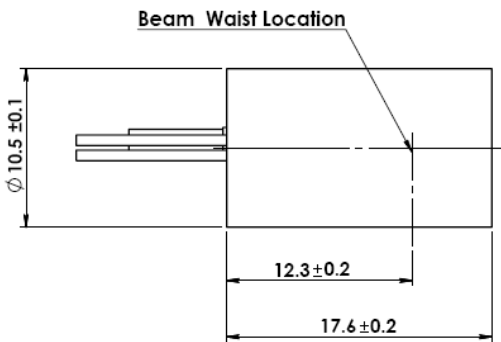
^③20mW at 25 °C

④ Non-condensing

Typical Output Performance



Dimensions and Pin Configuration (Unit: mm)



Pin Configurations : 1. LD- 2. None 3. LD+
 4. PD+ 5. PD-