



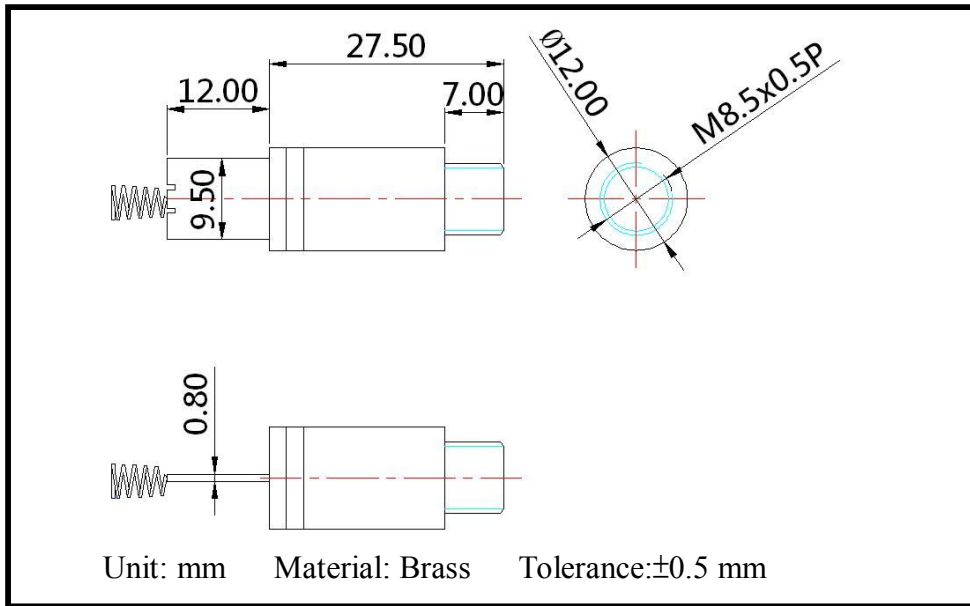
(JPM-5-3)

Kokyo

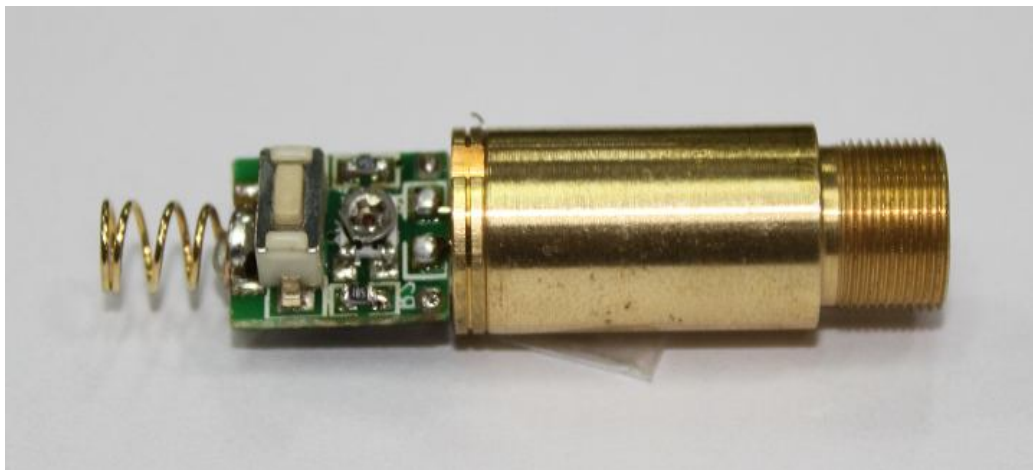
株式会社 光響

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GREEN LASER POINTER MODULE



Photo



Features

- Structure: Diode Pumped Solid-State Green Lasers.
- Transverse Mode: TEM00
- Output Mode: CW
- Operating Lifetime: abt.3,000hrs
- Current Mode: Auto Power Control
- Output Power: < 5mW
- Module Size: 12mm(dia.) x 27.5mm(L)    \* (L) w/o PCB size

Lightvision Technologies, Corp.

6F#5 , NO. 40-2, Sec. 1, Ming Sheng N. Rd., Kwei-Shan , Taoyuan 333, Taiwan

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## Applications

- Laser pointer
- Presenter

## Absolute maximum ratings

| Parameter             | Symbol           | Rating  | Unit |
|-----------------------|------------------|---------|------|
| Supply voltage        | V <sub>cc</sub>  | +3.5    | V    |
| Input signal voltage  | V <sub>IN</sub>  | -       | V    |
| Operating temperature | T <sub>opr</sub> | 15 ~35  | °C   |
| Storage temperature   | T <sub>stg</sub> | -5~ +55 | °C   |

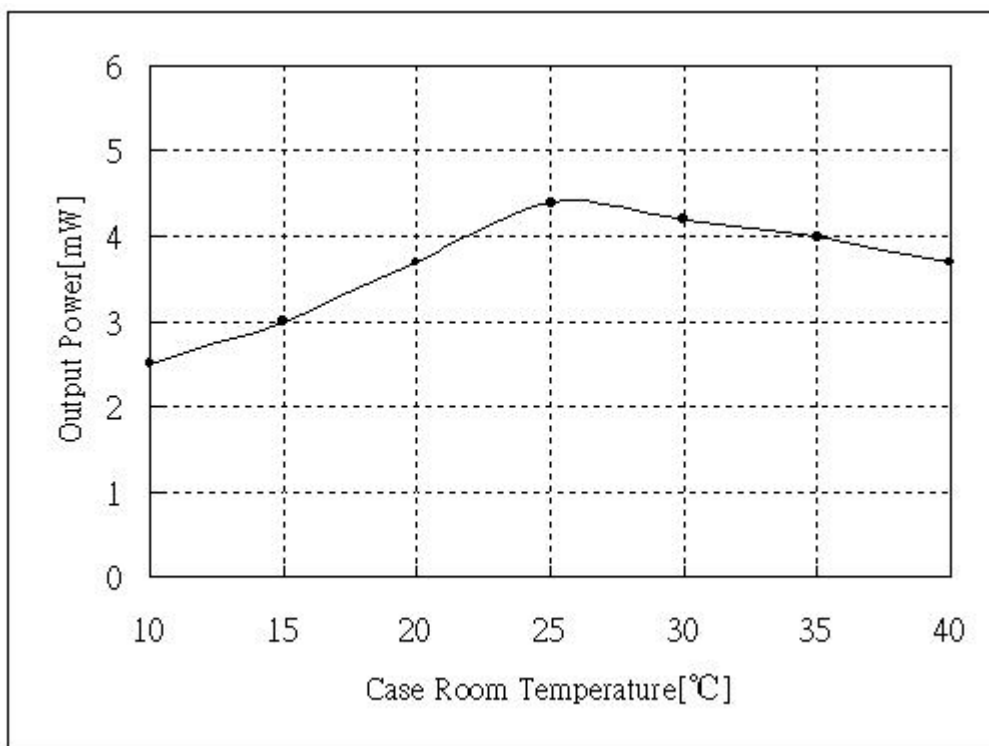
## Specifications

| Parameter         | Symbol         | Condition                    | Min | Typ  | Max | Unit |
|-------------------|----------------|------------------------------|-----|------|-----|------|
| Wavelength        | $\lambda_P$    |                              | -   | 532  | -   | nm   |
| Output power      | P <sub>0</sub> |                              | 2.5 | 4.5  | 4.5 | mW   |
| Power stability * | $\Delta P_0$   | T <sub>opr</sub> =15 ~ +35°C | -10 |      | +10 | %    |
| Beam divergence   | 2 $\theta_r$   |                              | -   | 1.55 | -   | mrad |

1) Initial values 2) Each value is measured by using our measuring instrument 3)  $\Delta$ 1: The distance from laser beam window

\* Same room temperature testing 30mins

### Output Power stability vs. Case Room temperature



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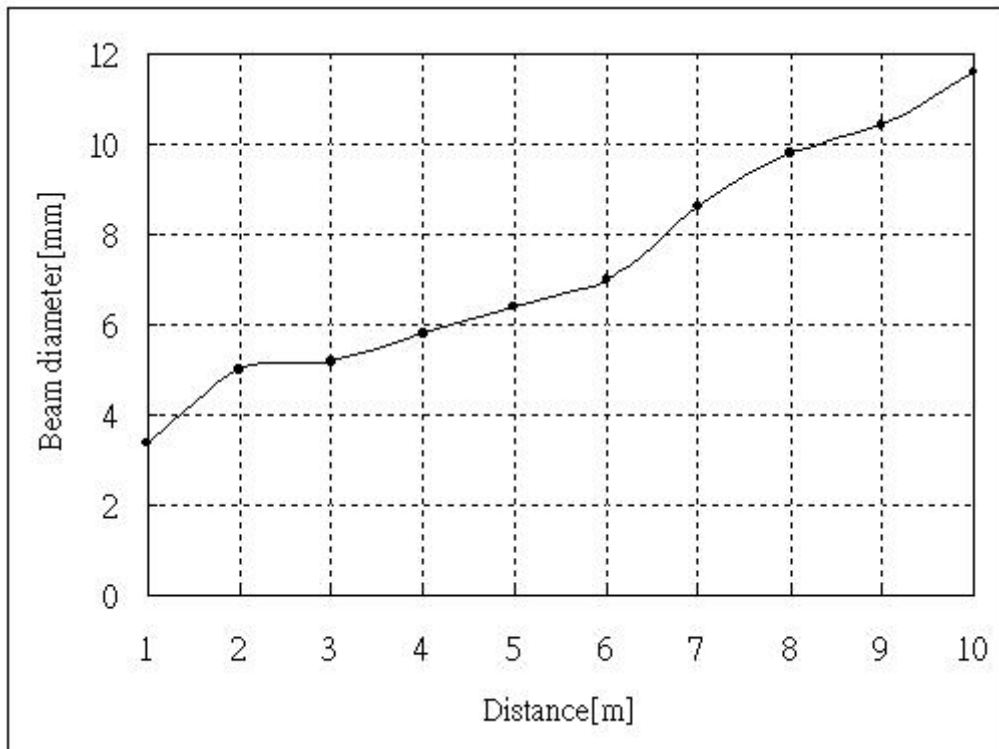
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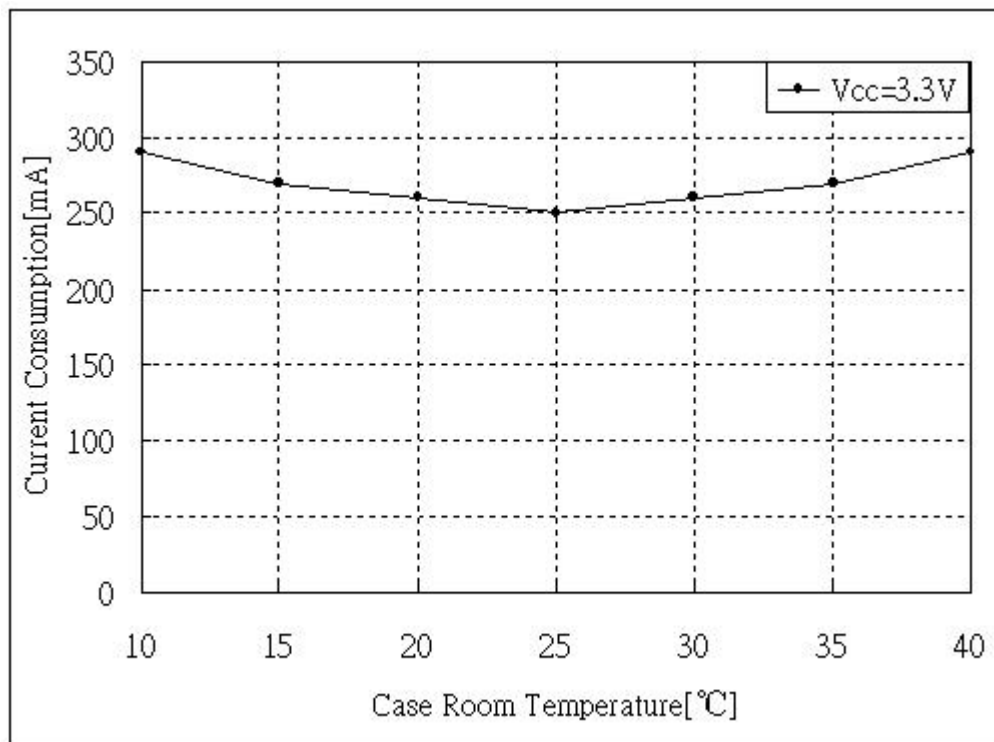
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## Beam diameter vs. Distance



## Current Consumption vs. Case Room temperature



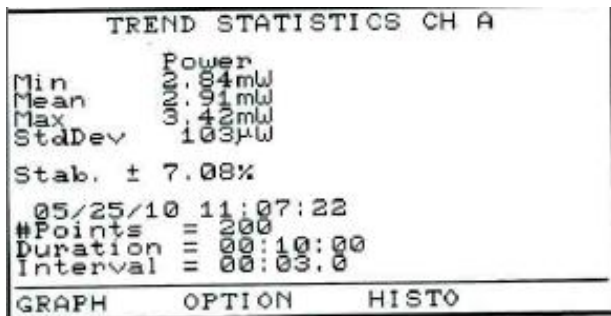
# 10mins Stability Test in Different Room Temperature

Inspection Instrument : Coherent Meter

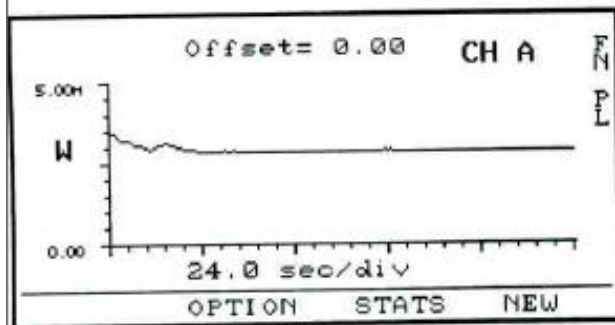
Model Name: LM Ultima

15°C

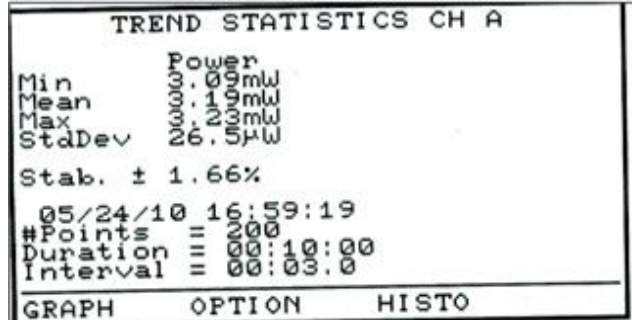
25°C



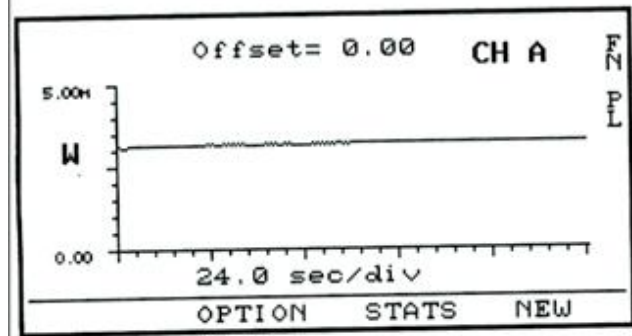
LM Ultima v. 2.35 05/25/10 11:17:50



LM Ultima v. 2.35 05/25/10 11:17:53

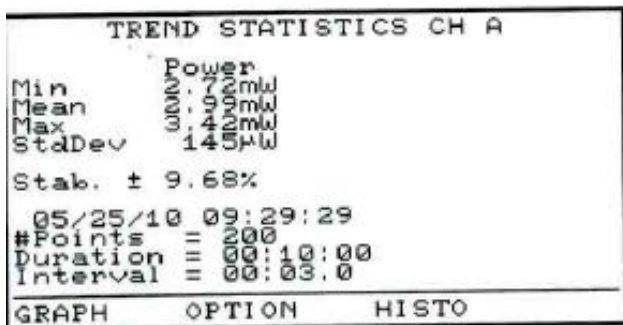


LM Ultima v. 2.35 05/24/10 17:09:36

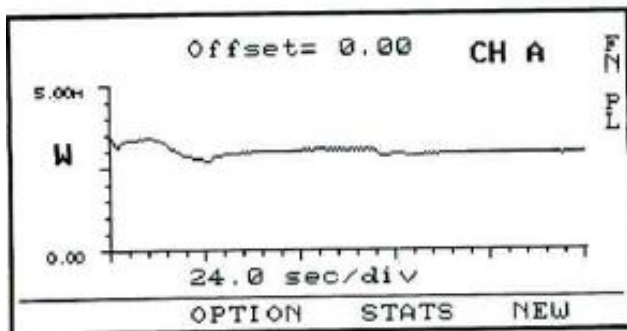


LM Ultima v. 2.35 05/24/10 17:09:40

35°C



LM Ultima v. 2.35 05/25/10 09:39:50



LM Ultima v. 2.35 05/25/10 09:39:54

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