

1. General:

1-1 Purpose

Offer a product, which has stable quality and function.

1-2 Range

This specification is suitable for the laser unit of LM-101-A2

2. Appearance:

- 1). Please refer to Appearance Drawing No. LM-101-A2
- 2). Label for lead-free type: argent word on green label.

3. Specification:

- 3-1 Average Wavelength:.....650nm(645nm-660nm)
- 3-2 Applicable Lens:.....A plastic lens for each unit
- 3-3 Output power:.....0.45 to 0.85mW (Laser class II)
- 3-4 Beam Dimension:.....Output Aperture about 3.5mm×1.7mm(±0.5mm)
.....No ghost spot at 3M distances.
.....Beam size is 10~15mm at 6M distance.
.....(Measure condition under the temperature 25±3°C)
- 3-5 Laser spot:.....Circle
- 3-6 Input Power Source:..... DC3.1V±10%
- 3-7 Consumption Current:.....typical: 16mA , Max: 40mA
- 3-8 Wire:..... 28 AWG PVC-Free
- 3-9 Solder Material:.....NIHON GENMA SOLDER (Lead-Free)
.....NP 303
.....NIHON GENMA SOLDER (Lead-Free)
.....NP 601
- 3-10 Body:.....Brass
- 3-11 Life Time:.....5000 hours

4. Wire Definition:

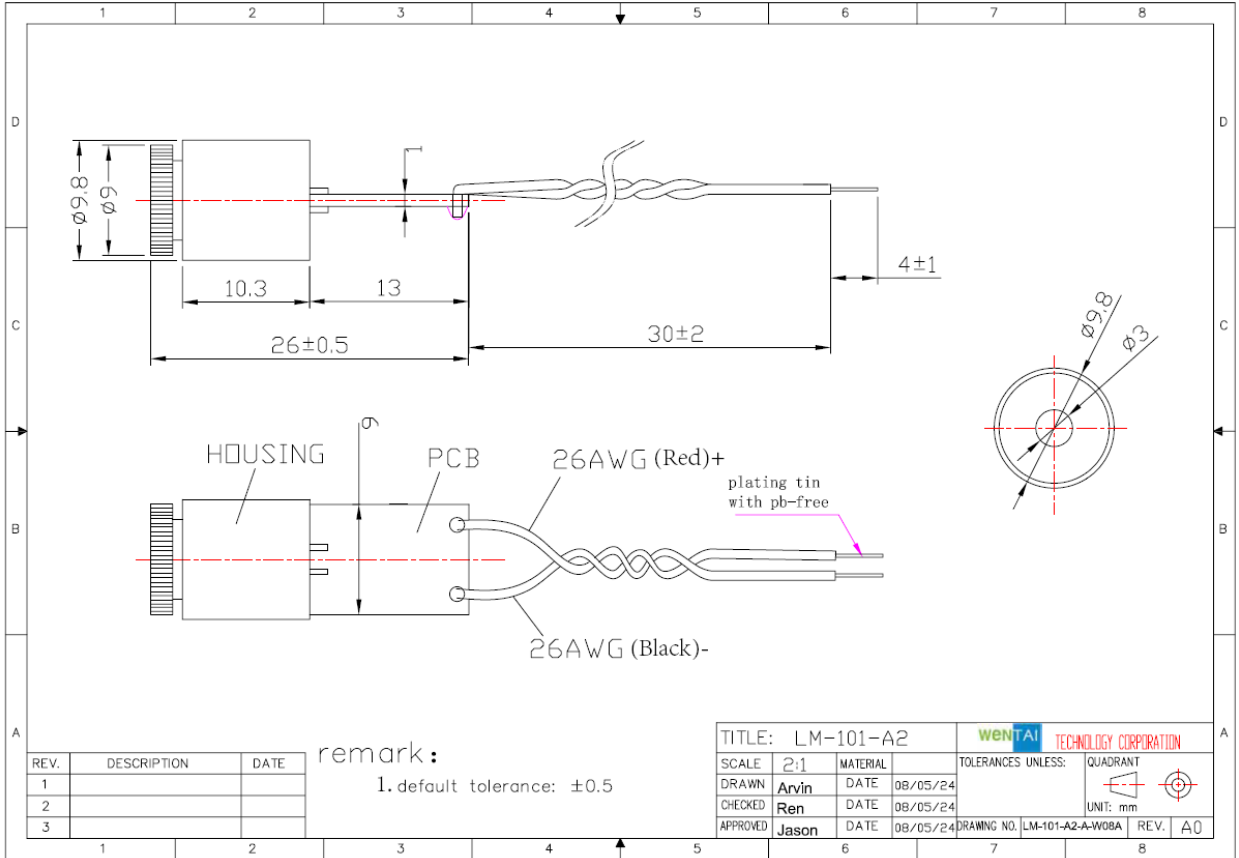
- As same as picture.....(+): DC +3.1V red color
-(-):GND black color

5. Environment Condition:

- 5-1 Storage Temperature and Humidity.....-25°C~70°C/40~95Rh
.....(Storage in 3 weeks)
- 5-2 Operating Temperature and Humidity.....0°C~40°C/20~80Rh
.....(No Condense)

6. Reliability test:

- 6-1 vibration test: depend on customer
- 6-2 drop test: 8 times at 1M after packing
- 6-3 voltage test: DC 2.6V to 3.5V
- 6-4 Temperature test: 0°C to 40°C



REV.	DESCRIPTION	DATE
1		
2		
3		

remark :
1. default tolerance: ±0.5

TITLE: LM-101-A2		WENTAI TECHNOLOGY CORPORATION	
SCALE: 2:1	MATERIAL:	TOLERANCES UNLESS:	QUADRANT
DRAWN: Arvin	DATE: 08/05/24		
CHECKED: Ren	DATE: 08/05/24		
APPROVED: Jason	DATE: 08/05/24		
DRAWING NO. LM-101-A2-A-W08A		REV.:	A0