

Dot laser, red, 650 nm, 1 mW

LFD650-1-3(8x23)
Order Number: 70103861

- Operating Voltage 3V DC
- Laser Class 2
- Fixed focus
- Low cost
- Compact size

| Main Parameters (*) | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength | | 650 | | nm |
| Optical Diode Power | | 1 | | mW |
| Operating Voltage | 2.6 | 3 | 3.3 | V DC |
| Operating Current | 10 | 15 | 25 | mA |
| Operating Temperature | -20 | | 40 | °C |
| Storage Temperature | -40 | | 80 | °C |

Main Data

Warranty 1 years

Technical Parameters

Lifetime >3,000h
RoHS yes

Optical Parameters

| | |
|--------------------|--------------|
| Beam Shape | Dot |
| Laser Class | 2 |
| Divergence | G - 0.8 mrad |
| Beam Diameter | 3.5 mm |
| Size of Laserdot | <4..6mm@5m |
| Operating Distance | 10 m |
| Optics | acryl lense |
| Laser technology | diode |
| Focus | collimated |

Electrical Parameters

| | |
|----------------------|--|
| Potential of Housing | VDD(+) |
| Power Supply | Power Supply with stripped/tinned wires, Output: 3.3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3.3W max. |

Mechanical Parameters

| | |
|-----------------|----------------------------|
| Size | Ø8x23 mm |
| Material | Brass |
| Cable length | 100 mm |
| Wire type | 26AWG, 0,14mm ² |
| Output Aperture | 3.5 mm |
| Weight | 3.5g |

(*) Over the complete operating temperature range

Features

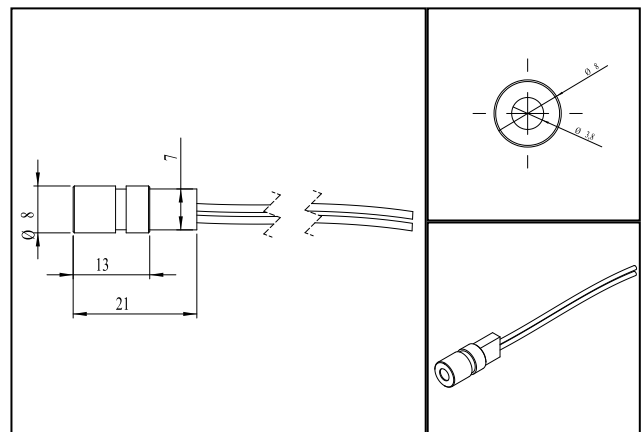
Picture



Cable color

| | | | |
|----------|--|-------|-----------------------|
| Ground | | white | GND |
| Positive | | red | 2.6 - 3.3, typ 3 V DC |

Drawing



Safety Label



Valid Revision

1 | 11-MAY-2022