

## Dot laser, red, 650 nm, 0.4 mW

DI650-0.4-5(8x21)  
Order Number: 70105803

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 650 |     | nm   |
| Optical Output Power  |     | 0.4 |     | mW   |
| Operating Voltage     | 4.5 | 5   | 5.5 | V DC |
| Operating Current     | 10  | 20  | 35  | mA   |
| Operating Temperature | -20 |     | 50  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Main Data

|          |         |
|----------|---------|
| Warranty | 1 years |
|----------|---------|

### Technical Parameters

|          |           |
|----------|-----------|
| Lifetime | > 5,000 h |
| RoHS     | yes       |

### Optical Parameters

|                    |                      |
|--------------------|----------------------|
| Beam Shape         | Dot                  |
| Laser Class        | 1                    |
| Divergence         | 1 - 1.5 mrad         |
| Beam Diameter      | 2 mm                 |
| Size of Laserdot   | <3.5mm@5m            |
| Operating Distance | 10 m                 |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Focus              | collimated           |

### Electrical Parameters

|                      |          |
|----------------------|----------|
| Potential of Housing | isolated |
|----------------------|----------|

### Mechanical Parameters

|                   |                            |
|-------------------|----------------------------|
| Size              | Ø8x21 mm                   |
| Material          | aluminium                  |
| Cable length      | 100 mm                     |
| Wire type         | 26AWG, 0,14mm <sup>2</sup> |
| Output Aperture   | 2 mm                       |
| Housing Color     | black                      |
| Weight            | 1.5 g                      |
| Stripping of wire | 5 mm                       |

(\*) Over the complete operating temperature range

### Features



- Operating Voltage 5 V DC
- Laser Class 1
- Low power consumption
- Compact size
- Fixed focus

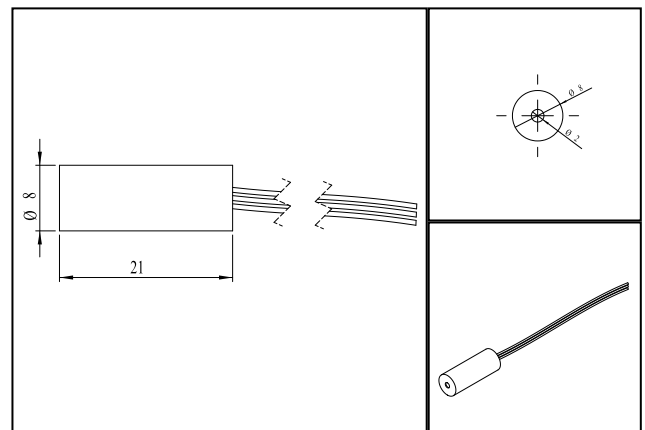
### Picture



### Cable color

|          |                                                                                    |       |                       |
|----------|------------------------------------------------------------------------------------|-------|-----------------------|
| Ground   |  | green | GND                   |
| Positive |  | red   | 4.5 - 5.5, typ 5 V DC |

### Drawing



### Safety Label



### Valid Revision

5 | 29-JAN-2025