

## Line laser, red, 650 nm, 20°, 5 mW

LE650-5-3(12X32)20DEG-C1000  
Order Number: 70154139

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 650 |     | nm   |
| Optical Output Power  |     | 5   |     | mW   |
| Operating Voltage     | 2.7 | 3   | 3.3 | V DC |
| Operating Current     | 15  | 30  | 45  | 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         | Line                 |
| Laser Class        | 1                    |
| Divergence         | E - 0.6 mrad         |
| Fan Angle          | 20°                  |
| Line Thickness     | <1.5mm@3m            |
| Operating Distance | 5m                   |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Focus              | fixed (3000mm)       |

### Electrical Parameters

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

### Mechanical Parameters

|                   |                     |
|-------------------|---------------------|
| Size              | Ø12x32 mm           |
| Material          | aluminium           |
| Cable length      | 1,000 mm            |
| Wire type         | 22AWG / black,white |
| Output Aperture   | 5.5 mm              |
| Housing Color     | black               |
| Weight            | 13g                 |
| Stripping of wire | 5 mm                |

(\*) Over the complete operating temperature range

### Features



- Kleiner Öffnungswinkel
- Kompakte Bauform
- Laser Klasse 1
- Betriebsspannung 3 V DC
- Voreingestellter Fokus

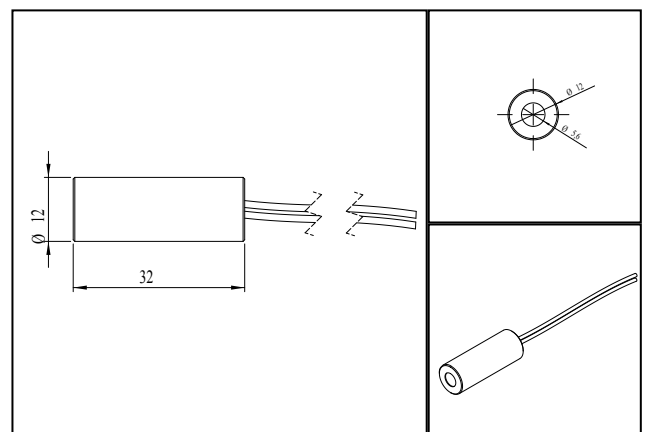
### Picture



### Cable color

|          |                                                                                    |       |                       |
|----------|------------------------------------------------------------------------------------|-------|-----------------------|
| Ground   |  | black | GND                   |
| Positive |  | red   | 2.7 - 3.3, typ 3 V DC |

### Drawing



### Safety Label



### Valid Revision

| 24-JAN-2022