

## Dot laser, red, 650nm, 1mW

LFD650-1-12(9x20)

Order Number: 70103984

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 650 |     | nm   |
| Optical Diode Power   | 0.5 | 1   | 1   | mW   |
| Operating Voltage     | 3   | 3   | 12  | V DC |
| Operating Current     | 15  | 25  | 30  | mA   |
| Operating Temperature | -20 |     | 40  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Technical Parameters

|          |        |
|----------|--------|
| Lifetime | >3000h |
| RoHS     | yes    |

### Optical Parameters

|                    |             |
|--------------------|-------------|
| Beam Shape         | Dot         |
| Laser Class        | 2           |
| Divergence         | H - 1.0mrad |
| Beam Diameter      | 3mm         |
| Size of Laserdot   | <4..5mm@5m  |
| Operating Distance | 10m         |
| Optics             | acryl lense |
| Laser technology   | diode       |
| Focus              | collimated  |

### Electrical Parameters

|                      |        |
|----------------------|--------|
| Potential of Housing | VDD(+) |
| Power Supply         | LFNT-3 |

### Mechanical Parameters

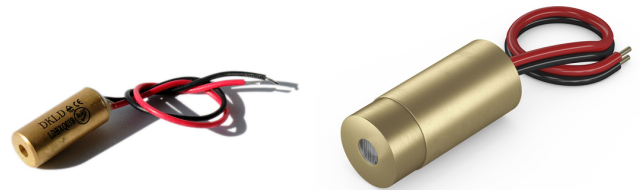
|                 |                            |
|-----------------|----------------------------|
| Size            | Ø9x20mm                    |
| Material        | Brass                      |
| Cable length    | 100mm                      |
| Wire type       | 26AWG, 0,14mm <sup>2</sup> |
| Output Aperture | 3mm                        |
| Weight          | 6g                         |

(\*) Over the complete operating temperature range



### Features

- Operating Voltage 3-12V DC
- Low cost
- Laser Class 2
- Compact size
- Fixed focus

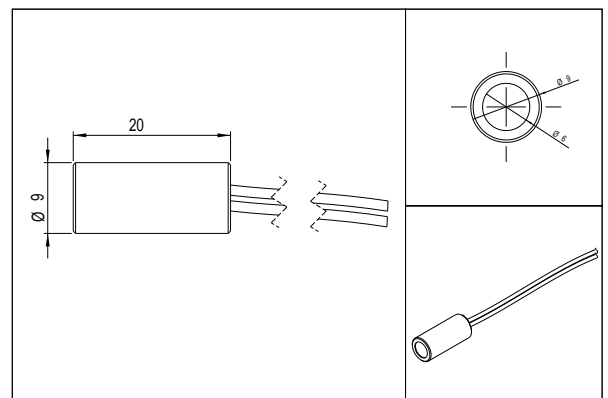
### Picture



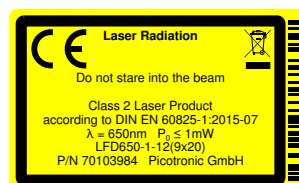
### Cable Colors

|          |   |       |                   |
|----------|---|-------|-------------------|
| Ground   |  | black | GND               |
| Positive |  | red   | 3 - 12, typ 3V DC |

### Drawing



### Safety Label



### Revision

REV 22 | 10-OCT-2018

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|                        |                                      |   |   |  |   |
|------------------------|--------------------------------------|---|---|--|---|
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|------------------------|--------------------------------------|---|---|--|---|