

## Dot laser, red, 635 nm, 1 mW

DI635-1-12(12x45)-AP-F100  
Order Number: 70120479

| Main Parameters (*)   | min  | typ | max  | Unit |
|-----------------------|------|-----|------|------|
| Wavelength            |      | 635 |      | nm   |
| Optical Output Power  |      | 1   |      | mW   |
| Operating Voltage     | 11.7 | 12  | 12.3 | V DC |
| Operating Current     | 10   | 20  | 30   | 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        | 2                    |
| Divergence         | 1 - 1.5 mrad         |
| Size of Laserdot   | <0,3mm@100mm         |
| Operating Distance | 0.1 m                |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Axial Divergence   | ± 0.1°               |
| Focus              | collimated           |

### Electrical Parameters

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

### Mechanical Parameters

|                   |                            |
|-------------------|----------------------------|
| Size              | Ø12x45 mm                  |
| Material          | aluminium                  |
| Cable length      | 110 mm                     |
| Wire type         | 26AWG, 0,14mm <sup>2</sup> |
| Output Aperture   | 2.5 mm                     |
| Housing Color     | silver                     |
| Weight            | 10 g                       |
| Stripping of wire | 5 mm                       |

(\*) Over the complete operating temperature range

### Features



- Axial parallel
- Glas lenses anti reflex coated
- Small package
- Operating Voltage 12V DC
- Laser Class 2

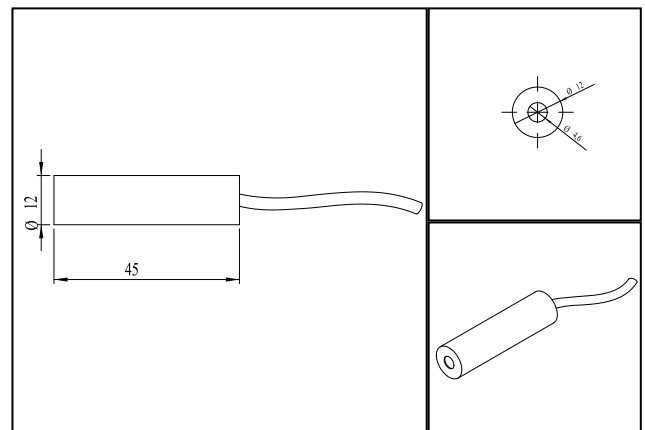
### Picture



### Cable color

|          |                                                                                    |       |                             |
|----------|------------------------------------------------------------------------------------|-------|-----------------------------|
| Ground   |  | black | GND                         |
| Positive |  | red   | 11.7 - 12.3, typ<br>12 V DC |

### Drawing



### Safety Label



### Valid Revision

| 26-JAN-2024