

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

DOE245-635-1-6(10x22)-F280  
Order Number: 70110708

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 635 |     | nm   |
| Optical Diode Power   |     | 1   |     | mW   |
| Operating Voltage     | 3   | 5   | 6   | V DC |
| Operating Current     | 20  | 30  | 45  | mA   |
| Operating Temperature | -20 |     | 50  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Main Data

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

### Technical Parameters

|          |           |
|----------|-----------|
| Lifetime | > 3,000 h |
| RoHS     | yes       |

### Optical Parameters

|                    |               |
|--------------------|---------------|
| Beam Shape         | DOE           |
| Laser Class        | 1             |
| Divergence         | G - 0.8 mrad  |
| Line Thickness     | <0.7mm@0.28m  |
| Operating Distance | 0.28 m        |
| Optics             | acryl lense   |
| Laser technology   | diode         |
| Protection Lens    | yes           |
| Focus              | fixed (280mm) |

### Electrical Parameters

|                      |        |
|----------------------|--------|
| Potential of Housing | VDD(+) |
|----------------------|--------|

### Mechanical Parameters

|                 |                            |
|-----------------|----------------------------|
| Size            | Ø10x22 mm                  |
| Material        | Brass                      |
| Cable length    | 100 mm                     |
| Wire type       | 26AWG, 0,14mm <sup>2</sup> |
| Output Aperture | 6 mm                       |
| Weight          | 8.5 g                      |

### DOE

|                           |        |
|---------------------------|--------|
| Alpha                     | 10°    |
| a                         | 18 mm  |
| Diameter (without holder) | 8 mm   |
| Width (without Holder)    | 1.2 mm |
| Material                  | PC     |

(\*) Over the complete operating temperature range

### Features



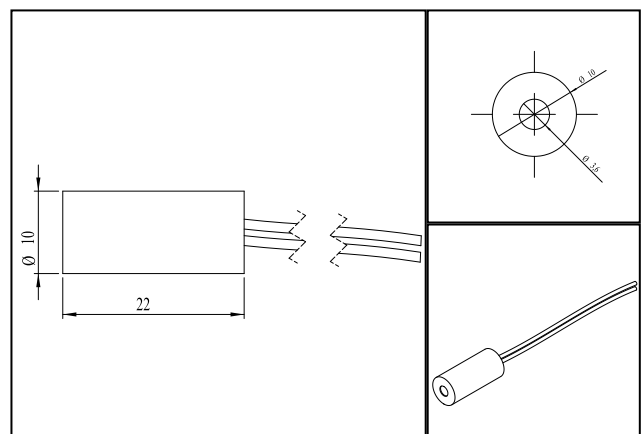
### Picture



### Cable color

|          |                                                                                     |       |                   |
|----------|-------------------------------------------------------------------------------------|-------|-------------------|
| Ground   |   | black | GND               |
| Positive |  | red   | 3 - 6, typ 5 V DC |

### Drawing



### Safety Label



### Valid Revision

11 | 11-JAN-2012