

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

DD635-1-3(21x21x50)  
Order Number: 70109306

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 635 |     | nm   |
| Optical Output Power  |     | 1   |     | mW   |
| Operating Voltage     | 2.7 | 3   | 3.3 | V DC |
| Operating Current     | 15  | 25  | 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         | Dot                  |
| Laser Class        | 2                    |
| Divergence         | D - 0.5 mrad         |
| Beam Diameter      | 5 mm                 |
| Size of Laserdot   | <5mm@5m              |
| Operating Distance | 10 m                 |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Focus              | collimated           |

### Electrical Parameters

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Potential of Housing | isolated                                                                                                       |
| Power Supply         | Power Supply with stripped/tinned wires, Output: 3.3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3.3W max. |

### Mechanical Parameters

|          |             |
|----------|-------------|
| Size     | 21x21x50 mm |
| Material | aluminium   |

|                   |                         |
|-------------------|-------------------------|
| Cable length      | 100 mm                  |
| Wire type         | Belden, Typ 1007, 26AWG |
| Output Aperture   | 5 mm                    |
| Housing Color     | black                   |
| Weight            | 54 g                    |
| Stripping of wire | 5 mm                    |

(\*) Over the complete operating temperature range

### Features



- Laser Class 2
- Operating Voltage 3 V DC
- Compact size
- Fixed focus
- Glas lenses anti reflex coated

### Picture



### Cable color

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

### Safety Label



### Valid Revision

7 | 26-MAR-2020