

## Modulated Red Dot Lasermodule

MD650-1-5(12x34)

Order Number: 70104905

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 650 |     | nm   |
| Optical Output Power  |     | 1   |     | mW   |
| Operating Voltage     | 4.5 | 5   | 5.5 | V DC |
| Operating Current     | 10  | 22  | 40  | mA   |
| Operating Temperature | -20 |     | 50  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Optical Parameters

|                    |                      |
|--------------------|----------------------|
| Beam Shape         | Dot                  |
| Laser Class        | 2                    |
| Divergence         | 0.5mrad              |
| Size of Laserdot   | adjustable           |
| Operating Distance | 10m                  |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Focus              | adjustable           |

### Technical Parameters

|          |        |
|----------|--------|
| Lifetime | >5000h |
| RoHS     | yes    |

### Electrical Parameters

|                      |              |
|----------------------|--------------|
| Potential of Housing | isolated     |
| Max. Mod. Frequency  | 100Kilohertz |
| Power Supply         | LFNT-5       |

### Mechanical Parameters

|                   |                            |
|-------------------|----------------------------|
| Size              | Ø12x34mm                   |
| Material          | Brass                      |
| Cable length      | 100mm                      |
| Wire type         | 26AWG, 0,14mm <sup>2</sup> |
| Output Aperture   | 5mm                        |
| Housing Color     | black                      |
| Weight            | 18g                        |
| Stripping of wire | 5mm                        |

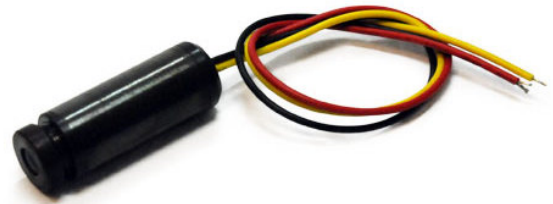
(\*) Over the complete operating temperature range

### Features



- Adjustable focus
- Low power consumption
- Compact size
- Modulated
- Glas lenses anti reflex coated

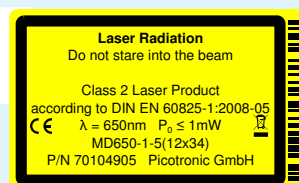
### Picture



### Cable Colors

|            |   |        |                      |
|------------|---|--------|----------------------|
| Ground     |  | black  | GND                  |
| Positive   |  | red    | 4.5 - 5.5, typ 5V DC |
| Modulation |  | yellow | 100Kilohertz         |

### Safety Label



### Revision

REV 9 | 10-JUL-2014