

## Expander Laser, infrared, 830 nm, 50 °, 110 mW

EJ830-110-(9.5x12)-AWL-MULTI-PCB  
Order Number: 70125665

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            | 825 | 830 | 835 | nm   |
| Optical Output Power  | 100 | 110 | 120 | mW   |
| Operating Voltage     |     | 3   |     | V DC |
| Operating Current     | 140 | 160 | 180 | mA   |
| Operating Temperature | -20 |     | 50  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Main Data

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

### Technical Parameters

|          |            |
|----------|------------|
| Lifetime | > 10,000 h |
| RoHS     | yes        |

### Optical Parameters

|                    |                      |
|--------------------|----------------------|
| Beam Shape         | expander             |
| Laser Class        | 3R                   |
| Fan Angle          | 50 °                 |
| Size of Laserdot   | <400mm@0.3m          |
| Operating Distance | 1 m                  |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Protection Lens    | no                   |
| Focus              | fixed (300mm)        |

### Electrical Parameters

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

### Mechanical Parameters

|              |                            |
|--------------|----------------------------|
| Size         | Ø9.5x12 mm                 |
| Material     | aluminium                  |
| Cable length | 200 mm                     |
| Wire type    | 26AWG, 0,14mm <sup>2</sup> |

|                   |        |
|-------------------|--------|
| Output Aperture   | 4.2 mm |
| Housing Color     | black  |
| Weight            | 10 g   |
| Stripping of wire | 5 mm   |

(\*) Over the complete operating temperature range

### Features



- Image processing
- Uniform illumination
- Modulated
- Spreading lens
- Compact size

### Picture



### Cable color

|          |                                                                                      |       |        |
|----------|--------------------------------------------------------------------------------------|-------|--------|
| Ground   |  | black | GND    |
| Positive |  | red   | 3 V DC |

### Safety Label



### Valid Revision

| 18-MAY-2021