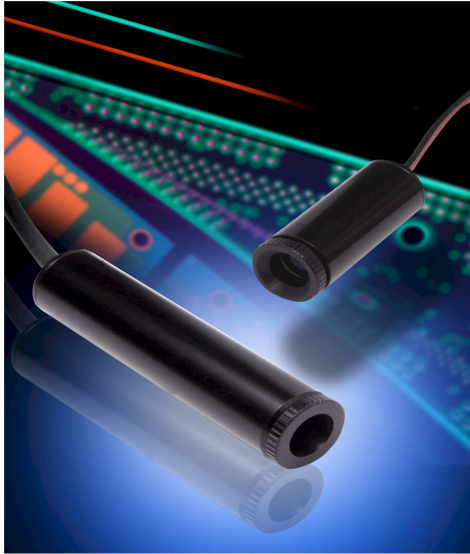


## ULL Series Uniform Laser Line



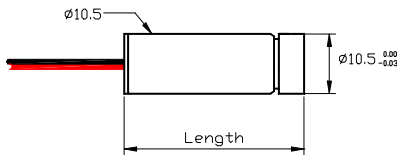
### Product Features

- Uniform line distribution along the line
- Collimated or fine laser line
- Custom Options Available

### Applications

- Food Sorting and classification
- Size Measurement and Counting
- Inspection & Measurement
- Automation & Alignment

### Mechanical Drawing



**Operational Hazard-Semiconductor Laser Diode Module:** This laser module emits radiation that is visible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.

**Limited Warranty:** One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication.

### Specifications

#### OPTICAL

Wavelength	635 to 670 nm
Optical Output Power	0.4 to 3.5
Stability	<1%
Fan Angle	30, 45 and 60
Noise (20MHz Bandwidth)	<0.5% RMS
Laser Operation	CW or TTL modulation(optional)
Laser Structure	Single Mode Laser
Focus Distance	Collimated (default) or focused
Minimum Line Thickness	<100 micron at short distances
Modulation Speed	0 to 1 MHz

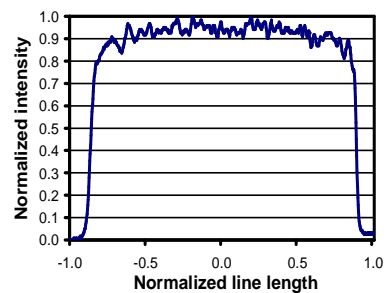
#### ELECTRICAL

Operating Voltage	3 to 5 VDC
Operating Current	<60 mA (laser dependent)
Electrical Connections	+Red, -Black-
Cable	200mm

#### MECHANICAL

Dimension (Dia * Length)	10.5mm * 40 mm
Operating Temperature	-10°C to +50°C
Storage Temperature	-40°C to +80°C
Heat Sink Requirements	Recommended

#### Intensity Distribution



#### Ordering Information

Part Number	Class
ULL5-0.4G-635/650/670-**	Class1 (IEC)
ULL5-1G-635/650/670-**	Class II (CDRH)
ULL5-3.5G-635/650/670-**	Class II (CDRH)

\*\* Fan Angles of 30, 45 and 60 deg are available as standard.

Other fan angles may be available. Please contact us.