

## Line laser, blue, 405 nm, 30°, 50 mW

MLE405-50-5(16x50)30-PWL-F40-IC  
Order Number: 70142242

Main Parameters (*)	min	typ	max	Unit
Wavelength	400	405	410	nm
Optical Output Power		50	75	mW
Operating Voltage	2.5	5	5	V DC
Operating Current	50	140	160	mA
Operating Temperature	-10		80	°C
Storage Temperature	-40		85	°C

### Main Data

Warranty 1 years

### Technical Parameters

Lifetime >6,000 h  
RoHS yes

### Optical Parameters

Beam Shape	Line
Laser Class	3R
Divergence	E - 0.6 mrad
Fan Angle	30°
Line Thickness	<0.04mm@0.04m
Operating Distance	0.04 m
Optics	Powell Lens
Laser technology	Single Mode Diode
Opt. Power Stability at const. Temp.	<5%
Axial Divergence	± 1°
Focus	fixed (40mm)

### Electrical Parameters

Potential of Housing	isolated
Cable color power control	Yellow

### Mechanical Parameters

Size	Ø16x50 mm
Material	aluminium
Cable length	300 mm

Wire type	26AWG, UL, isolated
Output Aperture	4.5 mm
Housing Color	black
Weight	20 g
Stripping of wire	5 mm

(\*) Over the complete operating temperature range

### Features



- Powell Lens
- Uniform line distribution
- Image processing

### Picture



### Cable color

Ground		black	GND
Positive		red	2.5 - 5, typ 5 V DC
Modulation		green	

### Safety Label



### Valid Revision

| 26-SEP-2022