

Line laser, blue, 405 nm, 45°, 50 mW

MLE405-50-5(16x50)45-PWL-F97-IC
Order Number: 70136104

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
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Technical Parameters

Lifetime	>6,000 h
RoHS	yes

Optical Parameters

Beam Shape	Line
Laser Class	3R
Divergence	E - 0.6 mrad
Fan Angle	45°
Line Thickness	<0.05mm@0.097m
Operating Distance	3 m
Optics	Powell Lens
Laser technology	Single Mode Diode
Opt. Power Stability at const. Temp.	<5 %
Axial Divergence	± 1°
Focus	fixed (97mm)

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

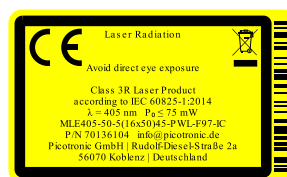
Picture



Cable color

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

Safety Label



Valid Revision

| 01-JUL-2025