

Line laser, blue, 450 nm, 60°, 100 mW

MLH450-100-12(16X60)60-PWL
Order Number: 70196917

Main Parameters (*)	min	typ	max	Unit
Wavelength	445	450	455	nm
Optical Output Power	80	100	120	mW
Operating Voltage	10.8	12	13.2	V DC
Operating Current	200	240	280	mA
Operating Temperature	-20		70	°C
Storage Temperature	-40		85	°C

Main Data

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

Technical Parameters

Lifetime	> 10,000 h
RoHS	yes

Optical Parameters

Beam Shape	Line
Laser Class	3R
Divergence	H - 1.0 mrad
Fan Angle	60°
Line Thickness	≤140µm (@180mm)
Operating Distance	1 m
Optics	Powell Lens
Focus	adjustable

Mechanical Parameters

Size	Ø16x60 mm
Material	Stainless Steel
Cable length	200 mm
Wire type	26AWG, 0,14mm²
Output Aperture	4 mm
Weight	35 g
Stripping of wire	5 mm

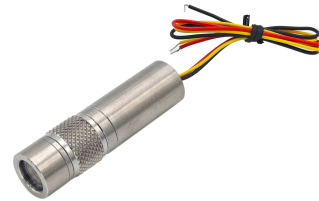
(*) Over the complete operating temperature range

Features



- Line Width (1/e2):
≤140 µm (@180 mm)
≤200 µm (@180±25 mm)
≤260 µm (@180±50 mm)
Line Uniformity >80%
Vibration: DIN EN 60068-2-6 Standard
Shock: DIN EN 60068-2-29 Standard

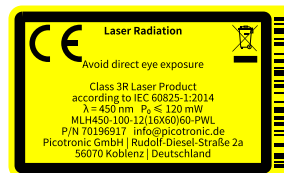
Picture



Cable color

Ground		black	GND
Modulation		yellow	
Positive		red	10.8 - 13.2, typ 12 V DC

Safety Label



Valid Revision

| 18-AUG-2026