

Line laser, blue, 450 nm, 60°, 20 mW

MLH450-20-5(12X50)60-PWL
Order Number: 70200812

Main Parameters (*)	min	typ	max	Unit
Wavelength	445	450	455	nm
Optical Output Power	15	20	25	mW
Operating Voltage	4.5	5	5.5	V DC
Operating Current	200	240	280	mA
Operating Temperature	-20		70	°C
Storage Temperature	-40		85	°C

Main Data

Warranty	1 years
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Technical Parameters

Lifetime	> 10,000 h
RoHS	yes

Optical Parameters

Beam Shape	Line
Laser Class	2M
Divergence	H - 1.0 mrad
Fan Angle	60°
Line Thickness	≤140µm (@180mm)
Operating Distance	0.18 m
Optics	Powell Lens
Focus	fixed (180mm)

Mechanical Parameters

Size	Ø12x50 mm
Material	aluminium
Cable length	200 mm
Wire type	26AWG, 0,14mm²
Output Aperture	4 mm
Housing Color	black
Weight	35 g
Stripping of wire	5 mm

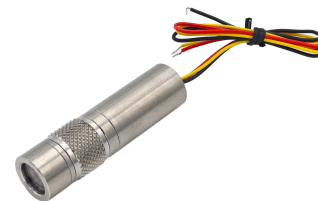
(*) Over the complete operating temperature range

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	4.5 - 5.5, typ 5 V DC

Safety Label



Valid Revision

| 23-OCT-2026