

Line laser, blue, 405 nm, 15°, 50 mW

MLH405-50-12-F(20X70)15-PWL
Order Number: 70196788

Main Parameters (*)	min	typ	max	Unit
Wavelength	400	405	410	nm
Optical Output Power	40	50	60	mW
Operating Voltage	10.8	12	13.2	V DC
Operating Current	40	60	80	mA
Operating Temperature	-30		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	15°
Line Thickness	≤160µm (@325mm)
Operating Distance	1 m
Optics	Powell Lens
Laser technology	Single Mode Diode
Focus	adjustable

Mechanical Parameters

Size	Ø20x70 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

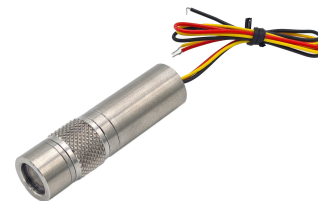
(*) Over the complete operating temperature range

Features



- Line Width (1/e2):
≤160µm (@325mm)
≤200µm (@325±35mm)
≤240µm (@325±70mm)
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

| 05-AUG-2026