

Line laser, infrared, 940 nm, 45°, 50 mW

MLH940-50-5(18x60)45-PWL-F400-P
Order Number: 70144109

Main Parameters (*)	min	typ	max	Unit
Wavelength	935	940	945	nm
Optical Output Power		50		mW
Operating Voltage	4.5	5	5	V DC
Operating Current	50	140	250	mA
Operating Temperature	-20		60	°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	3R
Divergence	H - 1.0 mrad
Fan Angle	45°
Line Thickness	<1mm@0.4m
Operating Distance	0.4 m
Optics	Powell Lens
Laser technology	Single Mode Diode
Opt. Power Stability at const. Temp.	< 5 %
Axial Divergence	± 1°
Focus	fixed (400mm)

Electrical Parameters

Potential of Housing	isolated
Cable color power control	Yellow

Mechanical Parameters

Size	Ø18x60 mm
Material	aluminium
Cable length	200 mm

Wire type	28AWG, Typ 1571
Output Aperture	4 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	4,5 - 5, typ 5 V DC
Modulation		green	

Safety Label



Valid Revision

| 09-MAY-2022