

## Cross laser, red, 650nm, 45°, 3.5mW

LFC650-5-12(9x20)45-F100

Order Number: 70109382

Main Parameters (*)	min	typ	max	Unit
Wavelength		650		nm
Optical Diode Power	2	3.5	5	mW
Operating Voltage	3	3	12	V DC
Operating Current		30		mA
Operating Temperature	-20		40	°C
Storage Temperature	-40		80	°C

### Technical Parameters

Lifetime	>3000h
RoHS	yes

### Optical Parameters

Beam Shape	Cross
Laser Class	1
Divergence	H - 1.0mrad
Fan Angle	45°
Line Thickness	<1mm@0.1m
Operating Distance	0.1m
Optics	acryl lens
Laser technology	diode
Focus	fixed (100mm)

### Electrical Parameters

Potential of Housing	VDD(+)
Power Supply	LFNT-3

### Mechanical Parameters

Size	Ø9x20mm
Material	Brass
Cable length	100mm
Output Aperture	6mm
Weight	6g

(\*) Over the complete operating temperature range


### Features

- Laser Class 1
- Operating Voltage 3-12V DC
- Low cost
- Compact size
- Fixed focus

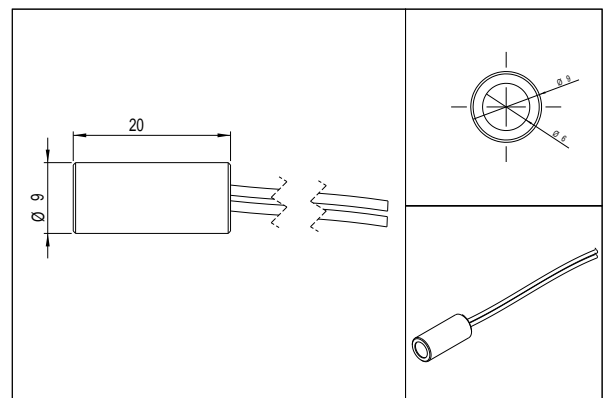
### Picture



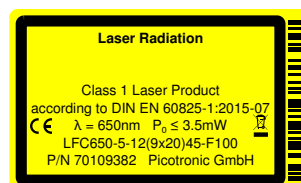
### Cable Colors

Ground		black	GND
Positive		red	3 - 12, typ 3V DC

### Drawing



### Safety Label



### Revision

REV 12 | 14-JAN-2016