

## Modulated Infrared Dot Lasermodule

MDB980-0.4-5-FA(14x45)

Order Number: 70122176

Main Parameters (*)	min	typ	max	Unit
Wavelength	975	980	985	nm
Optical Output Power		0.4		mW
Operating Voltage	4.5	5	5.5	V DC
Operating Current	5	12	30	mA
Operating Temperature	-20		50	°C
Storage Temperature	-40		80	°C

### Optical Parameters

Beam Shape	Dot
Laser Class	1
Divergence	0.3mrad
Beam Diameter	5mm
Size of Laserdot	<300mm@50m
Operating Distance	50m
Optics	glass lens AR coated
Laser technology	Single Mode Diode
Focus	fixed (50000mm)

### Technical Parameters

Lifetime	>5000h
RoHS	yes

### Electrical Parameters

Potential of Housing	isolated
Max. Mod. Frequency	50Kilohertz
Power Supply	LFNT-5

### Mechanical Parameters

Size	Ø14x45mm
Material	aluminium
Cable length	100mm
Wire type	Belden, Typ 1007, 26AWG
Output Aperture	5mm
Housing Color	black
Weight	15g
Stripping of wire	5mm

(\*) Over the complete operating temperature range

### Features






- Operating Voltage 5V DC
- Fixed focus
- Image processing
- Small laser head
- Laser Class 1

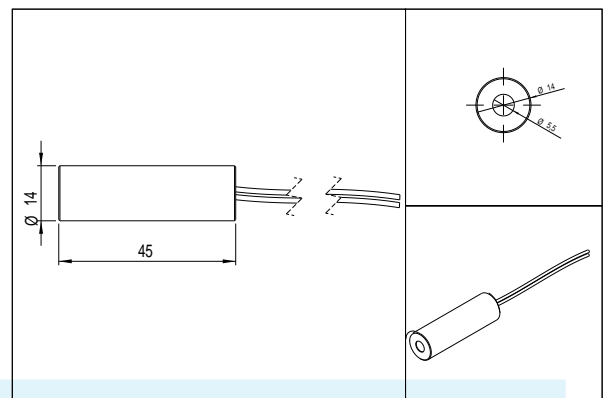
### Picture



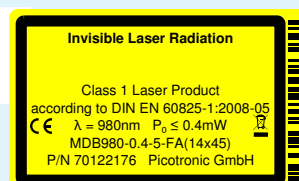
### Cable Colors

Ground		black	GND
Positive		red	4.5 - 5.5, typ 5V DC
Modulation		yellow	50Kilohertz

### Drawing



### Safety Label



### Revision

| 13-NOV-2014