



## STAR450F10

- Compact Blue Laser Diode Module
- 450 nm, 10 mW
- Modulation <500 kHz
- Glass Lens



### Description

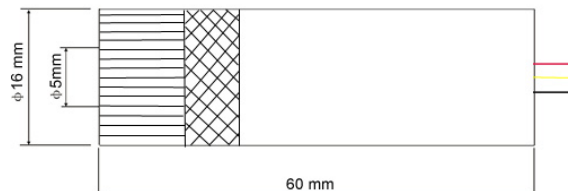
**STAR450** series of Laser diode modules has been designed with emphasis on **superior beam quality**, high power stability, and **reliable operation**. The modules body is made of black anodized aluminum, enclosing laser diode, lens, and driving electronics. STAR450 features a **focusable glass lens optic** with a locking mechanism. It can thus be used for long range applications and very short working distances alike. The **incorporated 6 VDC driver** circuit supports **TTL modulation up to 500 kHz**.

### Specifications

Parameter	Value
Wavelength	450 nm
Output Power	10 mW
Laser Class	3B
Beam Diameter at Aperture	5 x 2 mm
Beam Divergence	0.3 mrad
<b>Operating Voltage</b>	<b>6 VDC</b>
Operating Current	50 mA
Modulation (TTL)	< 500 kHz
Operating Temperature	-10°C ..+60°C
Storage Temperature	-30°C ..+80°C
Material Body	Aluminum, black anodized
Material Lens	Glass
Dimensions	Ø 16 mm x 60 mm
Leads (26AWG PVC free)	0.25 mm <sup>2</sup> x 170 mm
MTTF	8000 h



### Drawing



### Electrical Connection

Lead	Description
Red	+VDC* <sup>1</sup>
Black	GND
Yellow	Modulation Input* <sup>2</sup>

\*<sup>1</sup> module body electrically connected to +VDC

\*<sup>2</sup> for CW operation, modulation input must be connected to +VDC