



## STAR405F20

- Compact Violet Laser Diode Module
- 405 nm, 20 mW
- Modulation <300 kHz
- Glass Lens



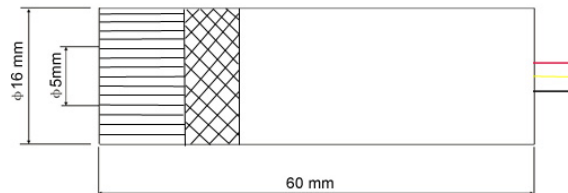
### Description

**STAR405** 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. STAR405 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 6VDC driver** circuit supports **TTL modulation up to 300 kHz**.

### Specifications

Parameter	Value
Wavelength	405 nm
Output Power	20 mW
Power Stability (over 4 hours)	5%
Laser Class	3B
Beam Diameter at Aperture	4.5 x 2.5 mm
Beam Divergence	0.3 mrad
Operating Voltage	6 VDC
Operating Current	60 mA
Modulation (TTL)	< 300 kHz
Operating Temperature	-10°C ..+70°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)	Ø 0.25 mm <sup>2</sup> x 170 mm
MTTF	8000 h

### Drawing



### Electrical Connection

Lead	Description
Red	+ 6VDC
Black	GND
Yellow	Modulation Input*

\*For CW operation connect modulation input to supply +voltage