



## LED1050AM-Q 1050nm Fiber Coupled LED



### Overview

The LED1050AM-Q fiber coupled LED has a nominal wavelength of 1050nm and outputs typical 4.0mW of power when used with a 600um core multimode fiber. The output is compatible with SMA905 fiber connectors. The fiber coupled LED features stable output intensity, long operating lifetime, and high power. It is widely used in spectroscopy, optogenetics, fluorescence excitation, and many other applications.

### Features

- High output power
- Long operating lifetime
- SMA905 fiber connector
- TTL or Analog external modulation input available

### Applications

- Spectroscopy
- Optogenetics
- Fluorescence excitation

### Specifications

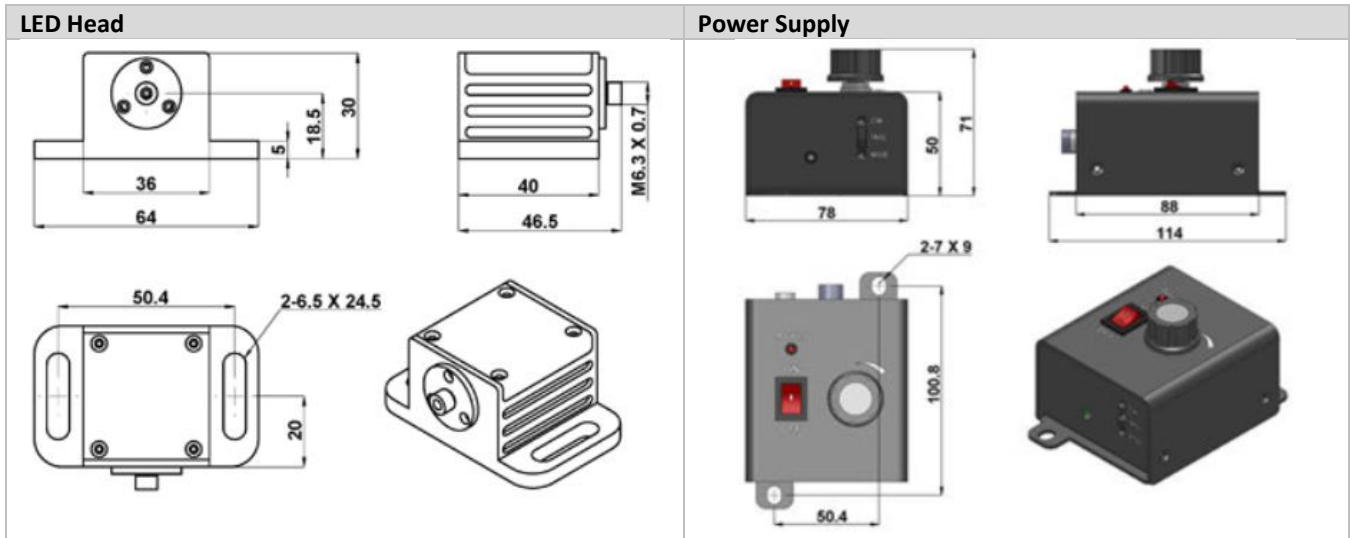
<b>Model Number</b>	<b>LED1050AM-Q</b>
Nominal wavelength (nm)	1050
Color	Infrared
Bandwidth FWHM (nm)	38
Fiber connector	SMA905
Numerical aperture (NA)	0.22
Fiber core diameter	600um
Typical $\phi$ 600 $\mu$ m core fiber output power SMA (mW)	4.0
Maximum current CW (mA)	600
Forward voltage (V)	1.4
Output power stability (rms, over 4 hours)	<5%
Dimensions of LED head	64 (L) x46.5 (W) x30 (H) mm <sup>3</sup>
Weight of LED head	0.2kg
Input Voltage	5V DC
Dimensions of Power supply	114 (L) x78 (W) x71 (H) mm <sup>3</sup>
Weight of Power supply	0.3kg
Operating mode	CW ( <b>Q=C</b> ); CW with TTL modulation: 1Hz-1kHz ( <b>Q=T1</b> ), 1kHz-10kHz ( <b>Q=T2</b> ); CW with Analog modulation: 1Hz-1kHz ( <b>Q=A1</b> ), 1kHz-10kHz ( <b>Q=A2</b> )
Operating temperature (°C)	10 to 35 °C
Typical lifetime (h)	~10,000

#### Remarks:

- The above testing data are only for reference. The actual spectrum of LED may change since the temperature or other parameters are different when operating the current.
- Other core diameter fibers may be available on request.



**Outline Dimensions (unit: mm)**



Note: The above specifications are subject to change without notice.