



Figure 1. Physical Photo of ATFLD2W830

FEATURES

High Output Power: 2W

Small Fiber Core Diameter: 50 μ m

100 % Lead (Pb)-free and RoHS Compliant

SPECIFICATIONS

Table 1. Characteristics. $T_A = 25\text{ }^\circ\text{C}$, unless otherwise noted

APPLICATIONS

830nm 2W fiber coupled laser diode module 2-pin package
50 μ m fiber can be used in printing, medical laser treatment and etc.

DESCRIPTION

ATFLD2W830 is designed with high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip into an output fiber with small core diameter by using special micro optics. Testing and burn-in procedures in every aspect will guarantee each product with high reliability, high stability, and a long lifetime.



DIMENSIONS

Center Wavelength@25 °C	±3nm	830nm	±10nm
Output Power	----	2W	----
Spectral Width (FWHM)	----	3nm	----
Recommended Case Temperature	25 °C		
Temperature Coefficient of Wavelength	0.3nm / °C		
Threshold Current (Typ.)	350mA		
Operating Current (Typ.)	3.0A		
Operating Voltage	1.9V		
Fiber Core Diameter	50um		
Fiber Numerical Aperture (NA)	0.22		
Fiber Length	80cm		
Connector Type	SMA905/ST/FC/SC (optional)		
Package Style	2-pin		
Reverse Voltage (Vr)	2.0V		
Operating Temperature (T _{op})	+10~+30 °C		
Storage Temperature (T _{stg})	-40 ~ +80 °C		
Lead soldering temperature (10 sec.)	260 °C		

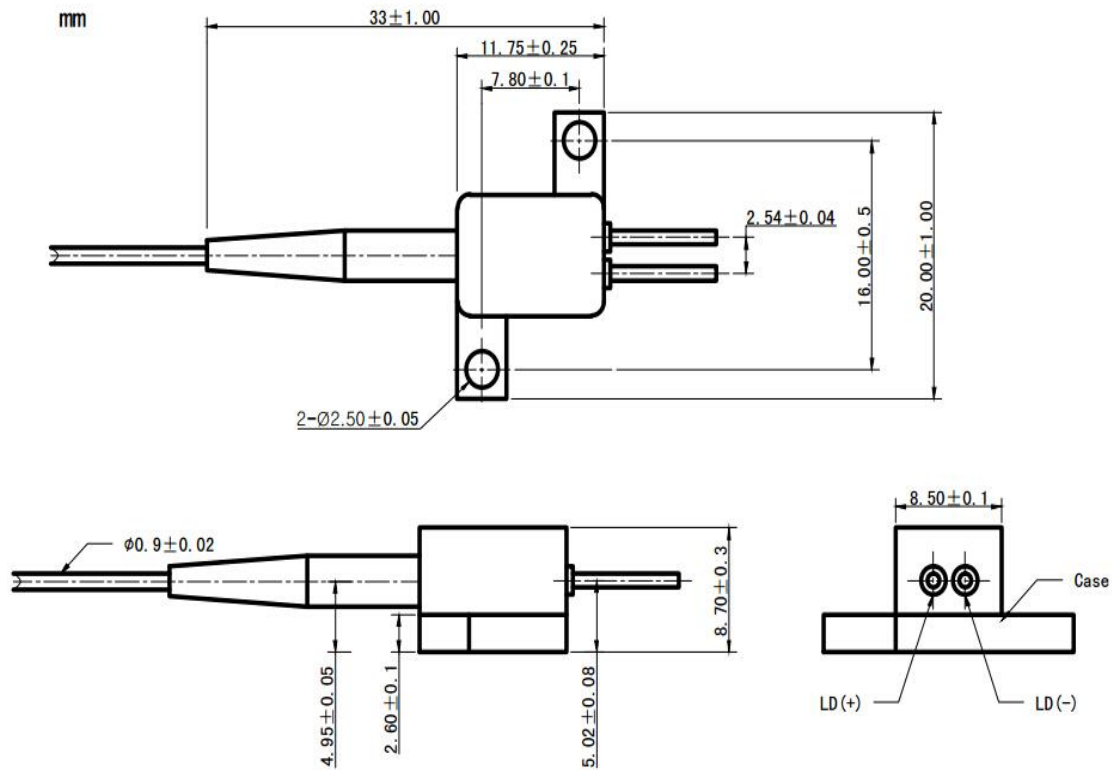


Figure 2. Dimensions of ATFLD2W830

OPERATING NOTES

Avoid eye exposure to direct or scattered radiation.

ESD precautions must be taken.

Please connect pins to wires by solder instead of using socket when the operating current $\geq 6A$.

Soldering point should be close to the root of the pins. The soldering temperature should be lower than 260 °C and the operation time ≤ 10 seconds.

Use constant current power supply and avoid surge current.

Laser diode must be used according to the specifications.

Laser diode must work with good cooling.

A minimum bend diameter should be 300 times greater than the fiber diameter.



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