

Figure 1. Physical Photo of ATFLD3W830

APPLICATIONS

830nm 3W fiber coupled laser diode module 2-pin package
105um fiber can be used in printing, medical laser treatment and etc.

DESCRIPTION

ATFLD3W830 is designed to result in volume products with a high efficiency, stability and superior beam quality. The products are achieved by transforming the asymmetric radiation from the laser diode chip onto an output fiber with small core diameter by using special micro optics. Inspecting and burn-in procedures in every aspect come to a result to guarantee each product with reliability, stability and long lifetime.

FEATURES

High output power: 3W

Small fiber core diameter: 105um

100 % Lead (Pb)-free and RoHS Compliant

SPECIFICATIONS

Table 1. Specification of ATFLD3W830

Center Wavelength@25°C	±3nm	830nm	±10nm
Output Power	---	3W	---
Spectral Width (FWHM)	----	3nm	----
Recommended Case Temperature	25°C		
Temperature Coefficient of Wavelength	0.3nm/°C		
Threshold Current (Typ.)	350mA		
Operating Current (Typ.)	3.4A		
Operating Voltage	1.9V		
Fiber Core Diameter	105um		
Fiber Numerical Aperture (NA)	0.22		
Fiber Length	100cm		
Connector Type	SMA905/ST/FC/SC		
Package Style	2-pin		
Reverse Voltage (Vr)	2.0V		
Operating Temperature (T _{op})	+10°C ~ +30°C		
Storage Temperature (T _{stg})	-40°C ~ +80°C		
Lead soldering temperature (10 sec.)	260°C		



DIMENSIONS

Unit: mm

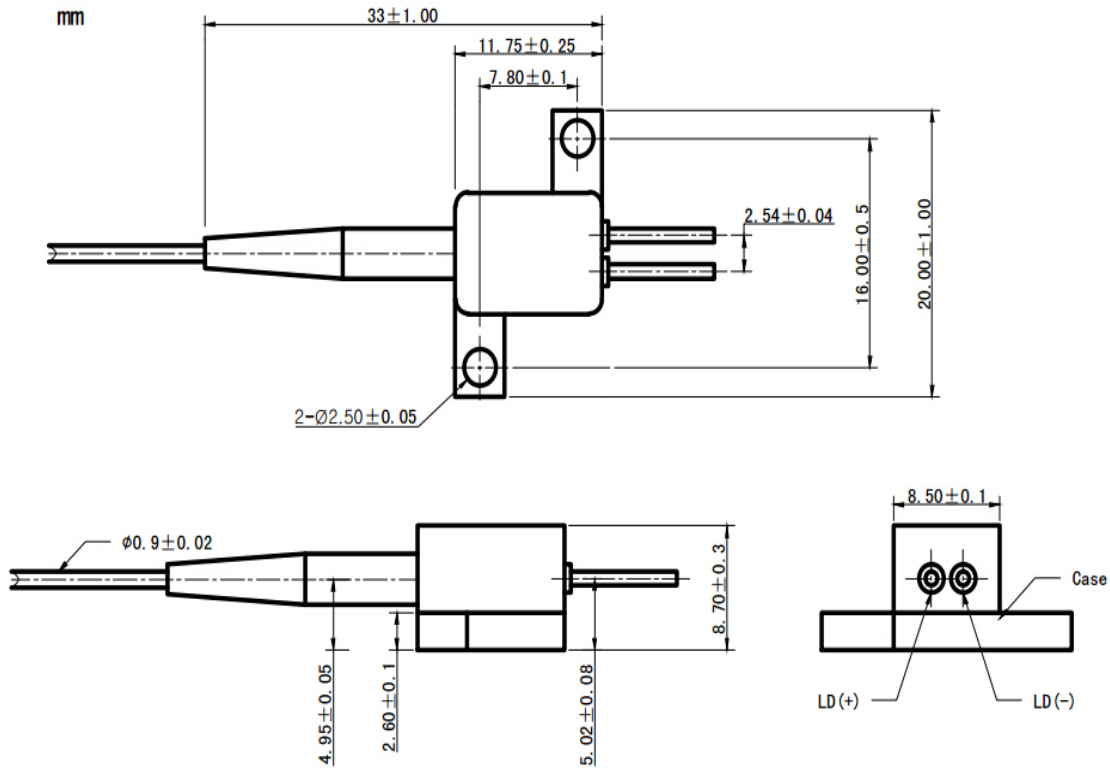


Figure 2. Dimensions of ATFLD3W830

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 operation current is higher than 6A.

Soldering point should be close to the root of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.

Use constant current power supply, 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.

Operation temperature is 10° C~30° C.

Storage: -40°C~ +80°C, all pins short-circuit.



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