



**Features:**

- ◆ 1470nm wavelength
- ◆ 15W output power
- ◆ 400µm 0.22NA detachable fiber

**Applications:**

- ◆ Medical Use
- ◆ Scientific Research

**Main Characters:**

- ◆ High output power
- ◆ High brightness
- ◆ Tightly sealed
- ◆ Electrically isolated housing

**Conduction Cooled Single Bar Fiber Coupled Module**

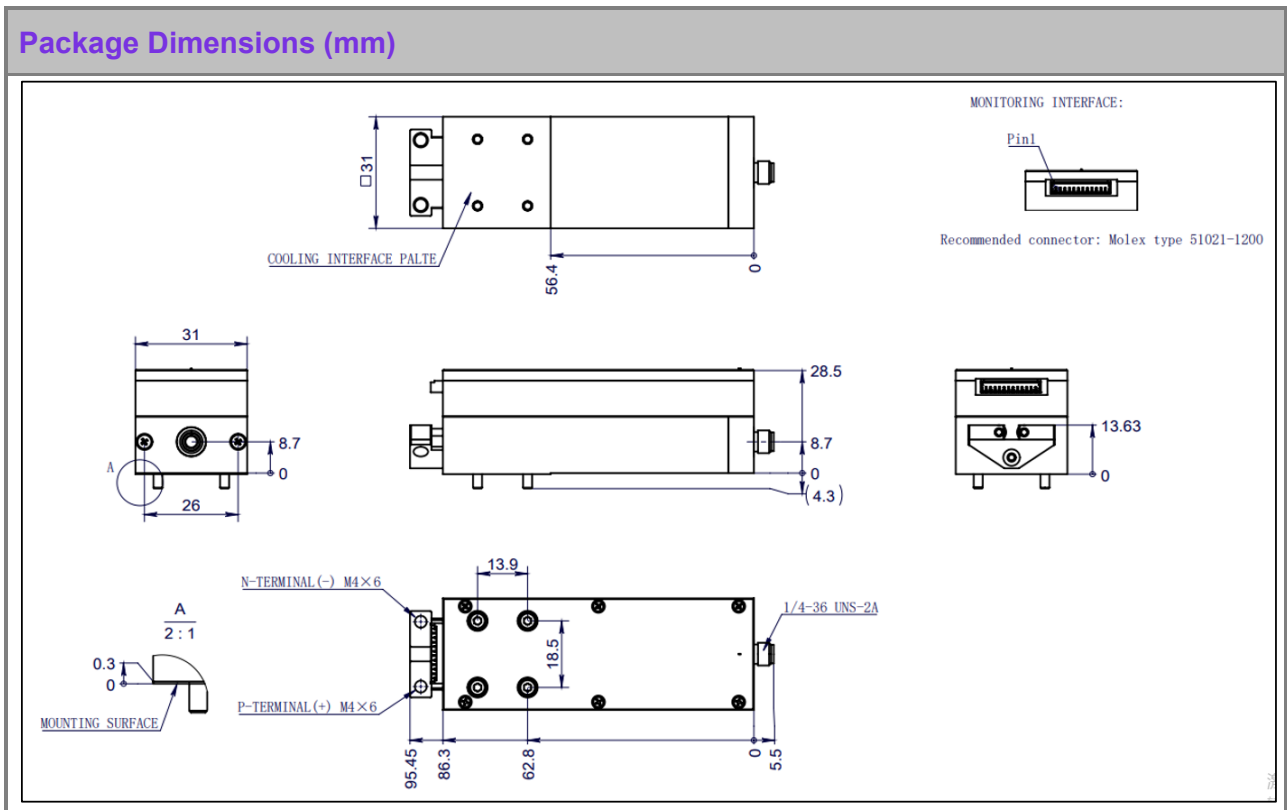
**RPMF2-1470H-15W-40022**

Specifications ( 25°C )		Unit	RPMF2-1470H-15W-40022
<b>Optical Data<sup>(1)</sup></b>	CW Output Power	W	15
	Center Wavelength	nm	1470±20
	Spectral Width (FWHM)	nm	< 15
	Wavelength Shift with Temperature	nm/°C	~0.58
	Wavelength Shift with Current	nm/A	~0.45
<b>Electrical Data</b>	Electrical-to-Optical Efficiency	%	> 18
	Operating Current	A	< 55
	Threshold Current	A	< 11
	Operating Voltage	V	< 1.4
	Slope Efficiency	W/A	> 0.3
<b>Fiber Data</b>	Core Diameter	µm	≥400
	Numerical Aperture	-	0.22
	Fiber Termination	-	HP-SMA905 with Free Standing Fiber Tips
<b>Others</b>	ESD	V	500
	Storage Temperature <sup>(2)</sup>	°C	0~55
	Operating Case Temperature <sup>(3)</sup>	°C	20~30
	Relative Humidity	%	15~75

(1) Data measured under operation at nominal output power @25°C.  
(2) A non-condensing environment is required for operation and storage.  
(3) Operating temperature defined by the package case. Acceptable operating range is 20°C~30°C, but performance may vary.  
(4) The data above are for reference only. For specific data, please refer to the delivery package data.  
(5) Other wavelengths and configurations on customer request.

# Conduction Cooled Single Bar Fiber Coupled Module

RPMF2-1470H-15W-40022



Pins	Functions	Explanation
1	/	Not in use
2	NTC Laser Diode	10kΩ, Epcos B57861S0103F040
3	NTC Laser Diode	
4	Photo Diode Anode	Laser diode 630nm to 1060nm: Lightsensing LSSPD-1.2
5	Photo Diode Cathode	Laser diode 1200nm to 1600nm: Lightsensing LSIPD-L0.3
6	NTC Fiber	10kΩ, Epcos B57861S0103F040
7	NTC Fiber	
8	Fiber Sensor	2x micro switch: 10 μA 2 V DC to 50 mA 12 V DC (Resistive load)
9	Fiber Sensor	
10	Pilot intensity control	available upon request
11	Pilot laser supply +5V	650nm (635nm and other wavelengths upon request)
12	Pilot laser GND	Inom <50mA, Unom 3V to 5V

## OPERATING NOTES

- ◆ Avoid eye and skin exposure to direct radiation during operation.
- ◆ ESD precautions must be taken during storage, transportation and operation. Short-circuit is required between pins during storage and transportation.
- ◆ Use constant current power supply to avoid surge current during operation.
- ◆ Laser diode must be used according to the specifications.
- ◆ Laser diode must work with good cooling.
- ◆ Operation temperature ranges from 20°C to 30°C .
- ◆ Storage temperature ranges from 0°C to 55°C.



**Declaration:** information and specifications contained herein are deemed to be reliable and accurate. BWT Beijing reserves the right to change, alter or modify the design and specifications of these products at any time without notice.21-1