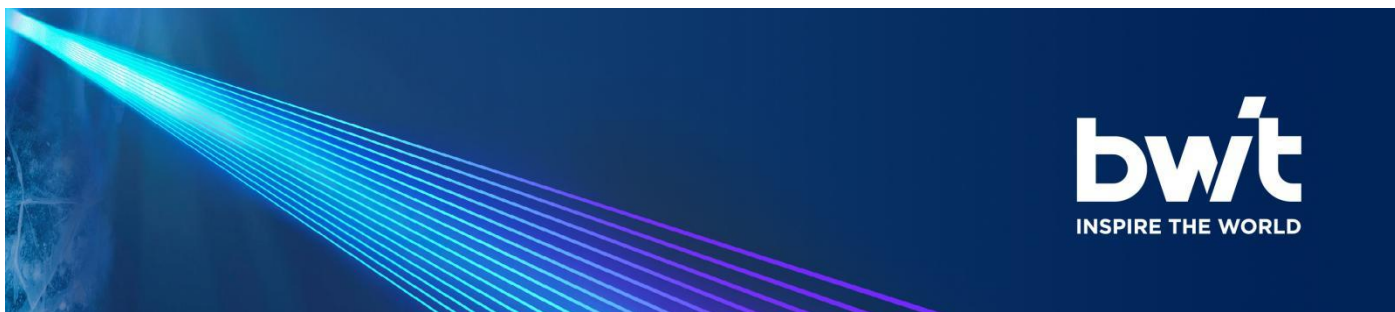




Conduction Cooled Single Bar Fiber Coupled Module

MF2-675E-15C-40022



Features :

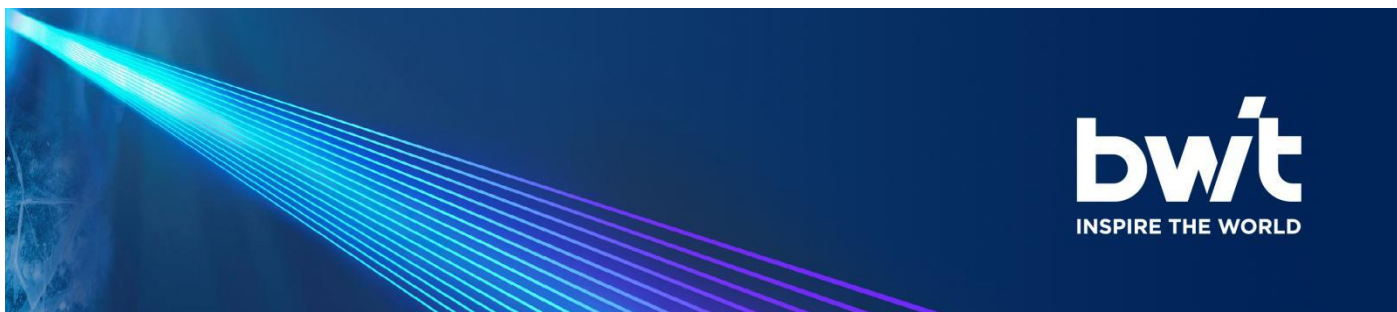
- ♦ High output power
- ♦ High brightness
- ♦ Electrically isolated housing

Applications :

- ♦ Industrial Application
- ♦ Scientific Research
- ♦ Medical Use

BWT, founded in 2003, is committed to the mission of "let the dream drive the light", the vision of becoming the "Global leader in laser solutions", and the value of "Outstanding innovation", providing diode laser, fiber laser, ultra-fast laser products and solutions to global customers.

The company pursues continuous innovation and insists on autonomous and controllable advanced process and technology. With Beijing headquarters as the core, BWT has successively established production and R&D centers in Jiangsu, Shanghai and Shenzhen, and invested in the construction of intelligent and digital production base in Tianjin. In order to build the world's highest level of technical strength and product quality, BWT set up a German subsidiary in 2020, introducing European quality standards, and taking a solid step for the internationalization of R&D, production and technological innovation.



Conduction Cooled Single Bar Fiber Coupled Module

MF2-675E-15C-40022

Specifications		Unit	MF2-675E-15C-40022		
			Min	Typical	Max
Optical Data ⁽¹⁾⁽²⁾⁽⁴⁾	CW Output Power	W	-	15	-
	Center Wavelength	nm	670	675	680
	Spectral Width (FWHM)	nm	-	-	3
	Wavelength Shift with Temperature	nm/°C	-	0.16	-
Electrical Data ⁽²⁾⁽⁴⁾	Electrical-to-Optical Efficiency	%	-	27.5	30
	Operating Current	A	-	25	27
	Threshold Current	A	-	5.5	8
	Operating Voltage	V	-	-	2.2
	Slope Efficiency	W/A		0.77	0.88
Fiber Data	Core Diameter	μm	-	400	-
	Numerical Aperture	-	-	0.22	-
	Fiber Termination	-	HP-SMA905 with Free Standing Fiber Tips		
PD Data	Current	μA	100 to 1000		
Thermistor	-	(KΩ)/β(25°C)	10±3%/3477		
Others	ESD	V	-	500	-
	Storage Temperature	°C	0~55		
	Operating Temperature	°C	-	20	-

(1) Data measured under operation at nominal output power @20°C.

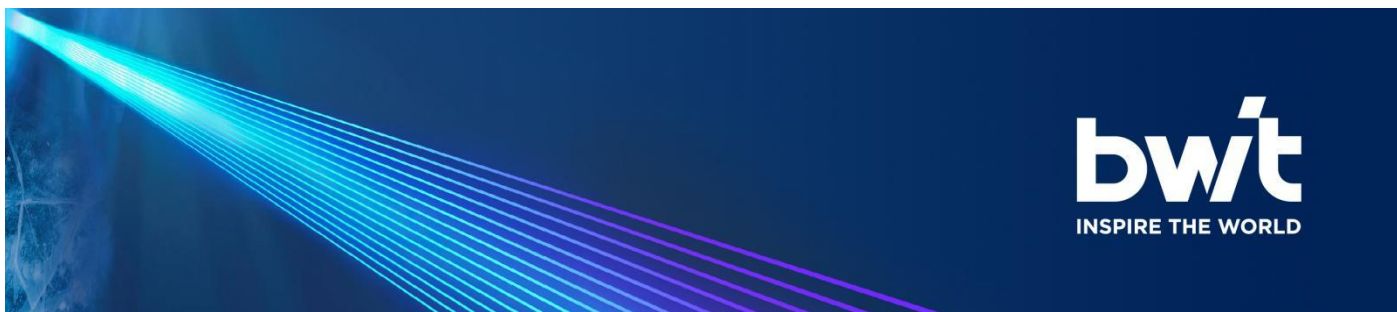
(2) Reduced lifetime if used above nominal operating conditions.

(3) A non-condensing environment is required for operation and storage.

(4) Operating temperature defined by the package case. Acceptable operating range is 20°C~30°C, but performance may vary.

(5) The data above are for reference only. For specific data, please refer to the delivery package data.

(6) Other wavelengths and configurations on customer request.



Conduction Cooled Single Bar Fiber Coupled Module

Package Dimensions (mm)

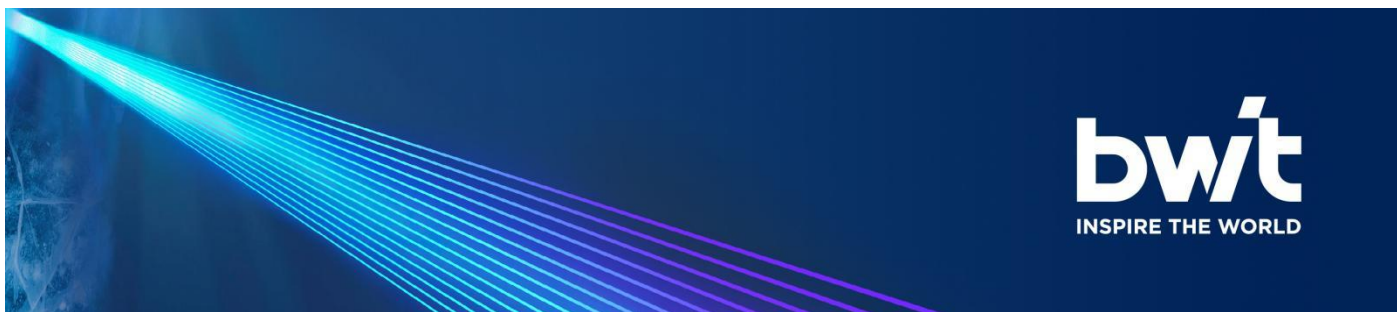
MONITORING INTERFACE:

Recommended connector: Molex type 51021-1200

Technical drawing of a mechanical part with dimensions: 28.5, 8.7, 0, and 4.3.

Technical drawing of the mounting plate for the 1000W 24VDC power supply. The drawing shows a rectangular plate with dimensions 186.3mm by 185.5mm. It features a 1/4-36 UNS-2A threaded hole on the right side for mounting. The plate is labeled with 'N-TERMINAL (-) M4x6' and 'P-TERMINAL (+) M4x6' on the left side. A detail view 'A' shows a 0.3mm gap and a 2:1 ratio. The mounting surface is indicated on the left.

MF2-675E-15C-40022	
Customer sign off	
Sign off time	



Conduction Cooled Single Bar Fiber Coupled Module

MF2-675E-15C-40022

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.



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