

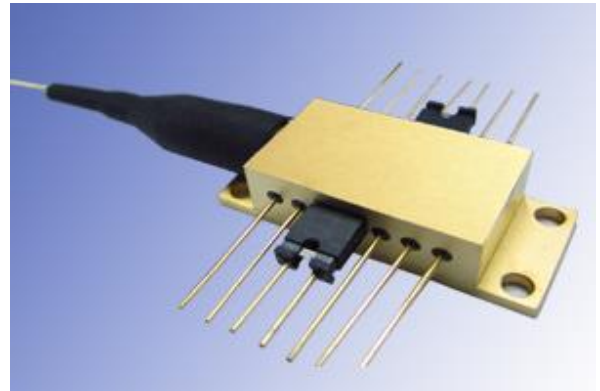
## 808nm Fiber-coupled Laser Diode

### Features

- 4.5W output power
- 105µm fiber core
- TEC, photodiode and thermistor

### Application

- Solid-state laser pumping



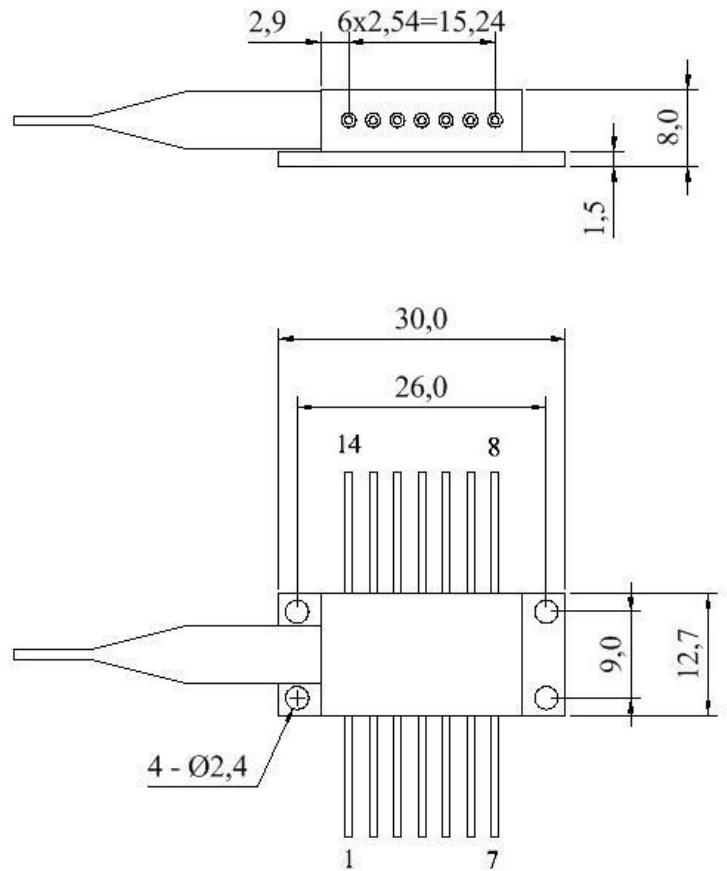
Model		M808±3-4.5-F105/22-R1-TP		
Optical parameters	Unit	Min	Typical	Max
Output power	W	4.5	4.5	
Central wavelength	nm	805	808	810
Spectral width (FWHM)	nm		< 3.0	
Wavelength current shift	nm/A		0.3	
Fiber parameters				
Fiber core diameter	µm	102	105	108
Numerical aperture	-	0.20	0.22	0.24
Fiber connector (optional)	-		SMA905	
Electric parameters				
Threshold current	A	0.9	1.0	1.1
Operating current	A		5.2	5.5
Operating voltage	V		1.92	1.95
Slope efficiency	W/A		1.1	
Accessories				
TEC			2.2A/8.7V	
Thermistor	Ω		10k@25°C	
Other parameters				
Operating temperature (Thermistor)	°C		20 – 35	
Operating humidity	%		< 75	
Storage temperature	°C		-20 – +80	
Soldering temperature	°C		250 (10s)	
Dimension (without fiber)	mm		30 x 12.7x 8	

**Compliance with Regulatory Requirements:** This industrial laser is an OEM version of a laser diode. As such, it is intended only for integration into other equipment. This laser does not comply with IEC and CDRH requirements. The customer is responsible for IEC and CDRH certifications of the system that incorporates this industrial laser.



## Package Dimension (mm)

Pin	Function
1	TEC Anode
2	Thermistor
3	Photodiode P
4	Photodiode N
5	Thermsitor
6	-
7	-
8	-
9	-
10	Laser Diode Anode
11	Laser Diode Cathode
12	-
13	Case
14	TEC Cathode



## Spectrum

