

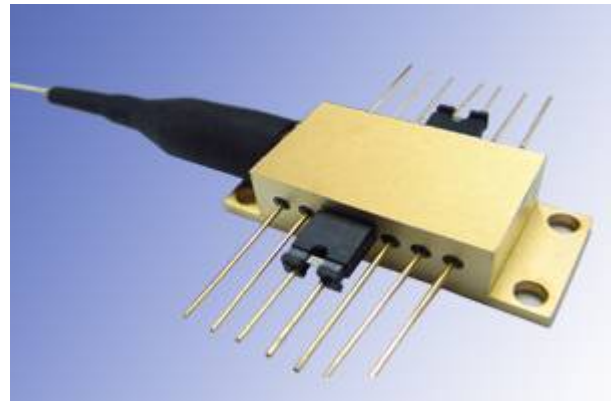
## 808nm Fiber-coupled Laser Diode

### Features

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

### Application

- Solid-state laser pumping



Model		M808±3-4.5-F105/22-S1-TP
<b>Optical parameters</b>		<b>Unit</b>
Output power	W	4.5
Central wavelength	nm	808
Wavelength tolerance	nm	± 3
Spectral width (FWHM)	nm	< 0.3
Wavelength current shift	nm/A	0.3
<b>Fiber parameters</b>		
Fiber core diameter	µm	105
Numerical aperture		0.22
Fiber connector (optional)	-	SMA905
<b>Electric parameters</b>		
Threshold current	A	0.82
Operating current	A	5.0
Operating voltage	V	1.8
Slope efficiency	W/A	1.1
<b>Accessories</b>		
TEC		-
Thermistor	Ω	10k@25°C
<b>Other parameters</b>		
Operating temperature	°C	10 – 40
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 +
2	Thermistor
3	Photodiode P
4	Photodiode N
5	Thermsitor
6	-
7	-
8	-
9	-
10	Laser diode +
11	Laser diode -
12	-
13	Case
14	TEC -

