

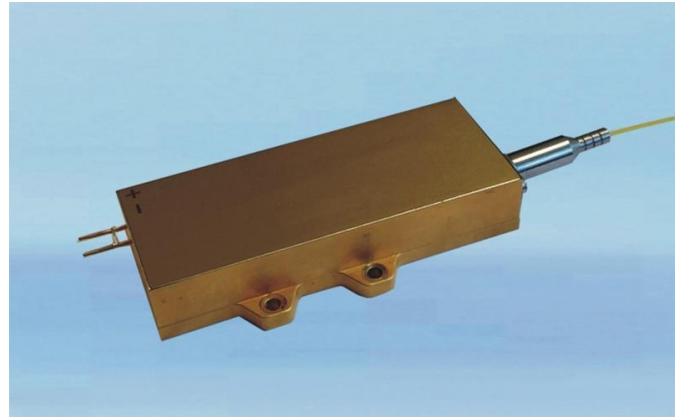
976nm Wavelength Stabilized Diode Laser

Features

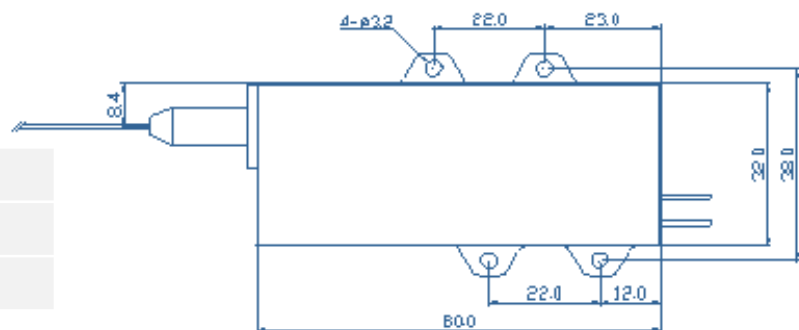
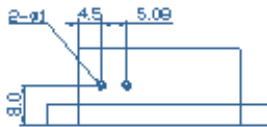
- 60W CW output power
- 105 μ m, 0.22NA output fiber
- Fiber laser feedback protection

Applications

- Fiber laser pumping
- Fiber amplifier pumping



Package dimension (mm)



Pin	Function
1	Laser diode +
2	Laser diode -



Module Specifications

Model	M976±0.5-60-F105/22-CK			
Optical parameters		Unit		
Output power	W		60	
Central wavelength	nm		976	
Wavelength tolerance	nm		± 0.5	
Spectral width (FWHM)	nm		< 0.5	
Wavelength temp. Coefficient	nm/°C		0.02	
Wavelength current coefficient	nm/A		0.05	
Fiber parameters				
Fiber core diameter	µm		105	
Numerical aperture			0.22	
Bare fiber length	m		1	
Electric parameters		min	typical	max
Threshold current (typical)	A		0.4	
Operating current (typical)	A	8.0	9.2	10.0
Operating voltage (typical)	V	12.0	13.0	14.0
Slope efficiency (typical)	W/A		7	
Power conversion efficiency (typical)	%		50	
Back reflection protection				
Wavelength range	nm		1030 – 1100	
Attenuation	dB		>40	
Other parameters				
Operating temperature*	°C		20 – 30	
Operating humidity	%		< 75	
Storage temperature	°C		-20 – +80	
Soldering temperature	°C		250 (10s)	

* Package baseplate temperature

Notes: 1. Module specifications and dimension are subject to change without notice.

2. ESD precautions must be taken.

3. The minimum fiber bend diameter should be 300 times greater than the fiber core diameter.

4. Reduced lifetime if improperly used or used above operating conditions.

5. A non-condensing environment is required for storage and operation below the ambient dew point.

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.

