

# **FocusFiber**®

## Fiber Coupled Multiple Single Emitter Series (CW)

#### FCMSE56



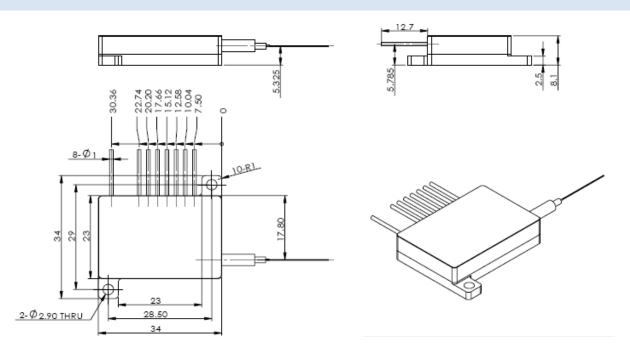
#### **Features**

- High power
- Aiming beam
- PD
- thermistor

### **Applications**

- Medical
- Scientific research
- Pumping

## **Device Dimension (mm)**



This structure drawing is only for reference. For any other special requirement, please feel free to contact us.



### **Specification**

Module Type <sup>1</sup>	Units	FL-FCMSE56-12-808	FL-FCMSE56-16-976
Optical <sup>3,6</sup>			
Center Wavelength λ	nm	808	976
Wavelength Tolerance	nm	±5	±10
Output Power <sup>2</sup>	W	12	16
Spectral Width FWHM	nm	≤4	≤5
Wavelength Temp. Coefficient	nm/°C	∼0.28	$\sim$ 0.34
Fiber Parameters			
Fiber Numerical Aperture	NA	0.22	0.22
Fiber Core Diameter	μm	200	200
Connector Type	-	SMA905	SMA905
Fiber length ⁵	m	1.5	1.5
Electrical Parameters <sup>3,6</sup>			
Operating Current I <sub>op</sub>	А	≤8.5	≤9.5
Threshold Current I <sub>th</sub>	Α	≤1.8	≤0.7
Operating Voltage V <sub>op</sub>	V	≤4	≤4
Slope Efficiency	W/A	≥1.5	≥1.5
Power Conversion Efficiency	%	≥38	≥45
PD parameters	mA	0-15	0-15
Thermistor Parameters	(KΩ)/β(25°C)	10±0.5%/3862	10±0.5%/3862
Red Aiming Beam	mA	<40@2mW 650nm	<40@2mW 650nm
Parameters	ША	140@ 2111W 03011111	140@2IIIW 030IIII
Thermal Parameters			
Operating Temperature	°C	15~30	15~30
Storage Temperature <sup>4</sup>	°C	-20~80	-20~80
Recommended Heatsink Capacity	W	≥40	≥40

<sup>&</sup>lt;sup>1</sup>Explanation for the name of Module Type: FL(abbreviation of Focuslight) –FCMSE56(structure code)





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<sup>-12(</sup>output power) -808(center wavelength).

 $<sup>^{2}\</sup>mbox{Reduced}$  lifetime if used above nominal operating conditions.

 $<sup>^3\</sup>mbox{Data}$  at 25°C temperature, unless otherwise stated.

<sup>&</sup>lt;sup>4</sup>A non-condensing environment is required for storage and operation below ambient dew point.

<sup>&</sup>lt;sup>5</sup>Fiber length can be specified by customer。