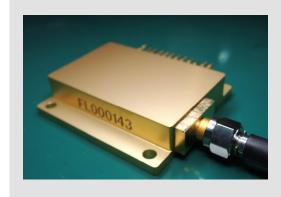
FocusFiber®

Fiber Coupled Multiple Single Emitter FCMSE58 Series (CW)

FCMSE58



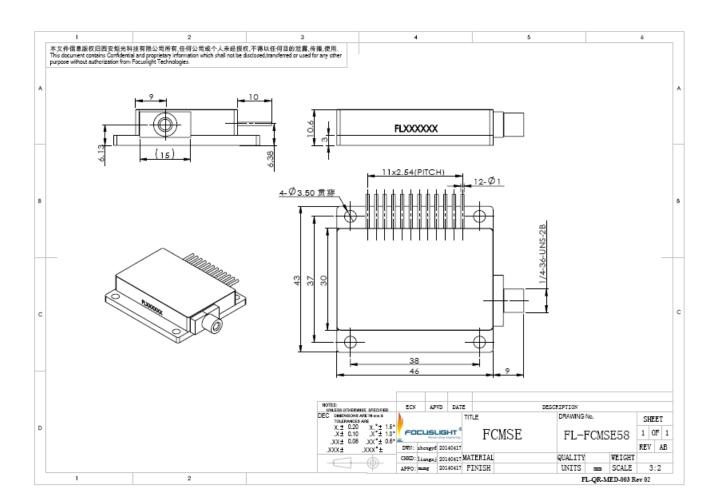
Features

- High power
- Aiming beam /monitor photodiode/ thermistor/ Fiber detection sensor

Applications

- Medical
- Scientific research
- Pumping
- IR illumination

Device Dimension (mm)



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



Fiber Coupled Multiple Single Emitter FCMSE58 Series (CW)

Specification

Module Type ¹	Units	FL-FCMSE58-25-808	FL-FCMSE58-30-976
Optical ^{3,6}			
Center Wavelength λ	nm	808	976
Wavelength Tolerance	nm	±3	±5
Output Power ²	W	25	30
Spectral Width FWHM	nm	≪4	≤6
Wavelength Temp. Coefficient	nm/℃	~0.28	~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 ^{3,6}			
Operating Current I _{op}	Α	≤ 9	≤ 9
Threshold Current I _{th}	Α	≤1.8	≤0.7
Operating Voltage V_{op}	V	€7.5	≤ 7.5
Slope Efficiency	W/A	≥2.8	≥3.5
Power Conversion Efficiency	%	≥40	≥50
Operating Current Imo	mA	0-5	0-5
Thermistor Rt	(KΩ)/β(25°C)	10±0.5%/3862	10±0.5%/3862
Red Aiming Beam Parameters	mW	>2mW 650nm@5V	>2mW 650nm@5V
Thermal Parameters			
Operating Temperature	$^{\circ}$	15~30	15~30
Storage Temperature ⁴	$^{\circ}$ C	-20~80	-20~80
Recommended Heatsink Capacity	W	≥75	≥75

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –FCMSE58 (structure code) -25(output power) -808(center wavelength)

⁷FL-FCMSE58-25-808 no fiber detection sensor



Focuslight Technologies Inc.

Add: 56 Zhangba 6th Road, High-Tech Zone Xi'an, Shaanxi 710077, P. R. China

Tel: +86 29 8956 0050 Fax: +86 29 8177 5810

Email: sales@focuslight.com.cn
Website: www.focuslight.com.cn

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²Reduced lifetime if used above nominal operating conditions.

³Data at 25°C temperature, unless otherwise stated.

⁴A non-condensing environment is required for storage and operation below ambient dew point.

⁵Fiber length can be specified by customer. 0.9mm PBTP is available for standard products.

⁶If there are any other requirements, please contact us.