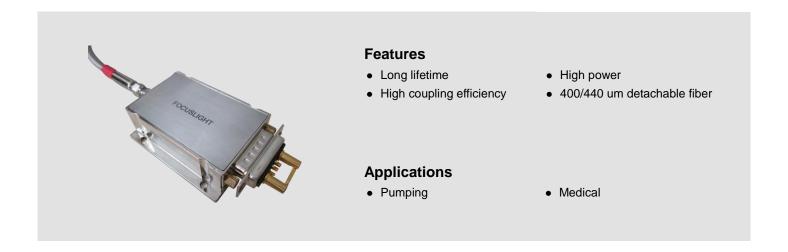
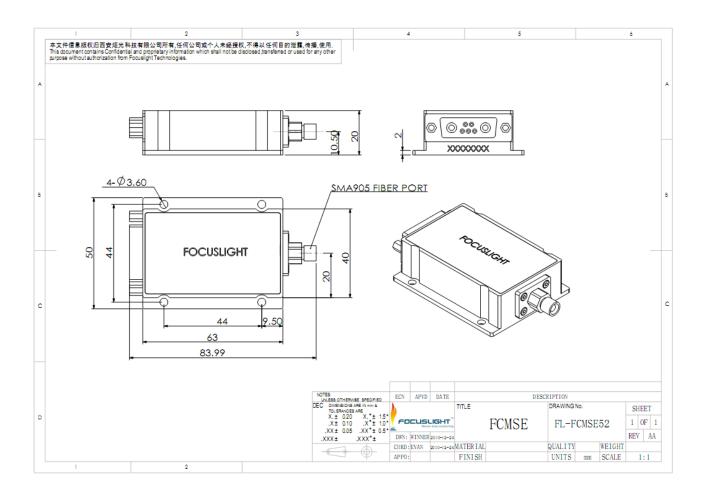


Fiber Coupled Multiple Single Emitter Diode Laser (CW)



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 Diode Laser (CW)

Specification

Module Type ¹	Units	FL- FCMSE52- 10-808	FL- FCMSE52- 12-808	FL- FCMSE52- 20-808	FL- FCMSE52- 10-915	FL- FCMSE52- 12-915	FL-FCMSE52- 20-915
Optical ^{3,7}							
Center Wavelength λ	nm	808	808	808	915	915	915
Wavelength Tolerance	nm	±3	±3	±3	±5	±5	±5
Output Power ²	W	10	12	20	10	12	20
Spectral Width FWHM	nm	≪4	≪4	≪4	≪4	≪4	≪4
Spectral Width FW90%E	nm	≤6	≪6	≪6	≪6	≤6	≪6
Polarization Mode	-	TM	TM	TE	TE	TE	TE
Wavelength Temp. Coefficien	t nm/℃	~0.28	~0.28	~0.28	~0.32	~0.32	~0.32
Fiber Parameters							
Fiber Numerical Aperture	NA	0.22	0.22	0.22	0.22	0.22	0.22
Fiber Core/Cladding Diameter	μm	400/440	400/440	400/440	400/440	400/440	200/220or400/440
Connector Type ⁶	-	SMA905	SMA905	SMA905	SMA905	SMA905	SMA905
Fiber length ⁵	m	1.5	1.5	1.5	1.5	1.5	1.5
Electrical Parameters ^{3,7}							
Operating Current I _{op}	Α	≪4.8	≪4.8	≪8	≪4.8	≤5.5	≪8
Threshold Current I _{th}	Α	≤1	≤1	≤0.8	≤1	≤1	≤0.8
Operating Voltage V _{op}	V	≤6	≪6	≪6	≪6	≤6	≪6
Slope Efficiency	W/A	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5	≥2.5
Power Conversion Efficiency	%	≥35	≥35	≥35	≥20	≥25	≥40
Thermal Parameters							
Operating Temperature	$^{\circ}\!\mathbb{C}$	15~30	15~30	15~30	15~30	15~30	15~30
Storage Temperature ⁴	$^{\circ}\!\mathbb{C}$	0~55	0~55	0~55	0~55	0~55	0~55
Recommended Thermal Dissipation Capacity	W	≥20	≥25	≥30	≥20	≥25	≥40

¹Explanation for the name of Module Type: FL(abbreviation of Focusligth) –FCMSE52 (structure code) -10(output power) -808(center wavelength).

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.

⁶Can be with or without fiber connector.

⁷If there are any other requirements, please contact us.



Fiber Coupled Multiple Single Emitter Diode Laser (CW)

Specification

Module Type ¹	Units	FL-FCMSE52- 10-940	FL-FCMSE52- 12-940	FL-FCMSE52- 10-976	FL-FCMSE52- 12-976	FL-FCMSE52- 20-976			
Optical ^{3,7}									
Center Wavelength λ	nm	940	940	976	976	976			
Wavelength Tolerance	nm	±5	±5	±5	±5	±5			
Output Power ²	W	10	12	10	12	20			
Spectral Width FWHM	nm	≪4	≪4	≪4	≪4	≪4			
Spectral Width FW90%E	nm	≪6	≪6	≪6	≪6	≪6			
Polarization Mode	-	TE	TE	TE	TE	TE			
Wavelength Temp. Coefficien	t nm/℃	~0.33	~0.33	~0.34	~0.34	~0.34			
Fiber Parameters									
Fiber Numerical Aperture	NA	0.22	0.22	0.22	0.22	0.22			
Fiber Core/Cladding Diameter	μm	400/440	400/440	200/220or400/440	200/220or400/440	200/220or400/440			
Connector Type ⁶	-	SMA905	SMA905	SMA905	SMA905	SMA905			
Fiber length ⁵	m	1.5	1.5	1.5	1.5	1.5			
Electrical Parameters ^{3,7}									
Operating Current I _{op}	Α	≤4.8	≤5.5	≤4.8	≤5.5	≤8			
Threshold Current I _{th}	Α	≤1	≤1	≤1	≤1	≪0.8			
Operating Voltage V _{op}	V	≤6	≤6	≪6	≤6	≪6			
Slope Efficiency	W/A	≥2.5	≥2.5	≥2.5	≥ 2	≥ 2			
Power Conversion Efficiency	%	≥20	≥25	≥20	≥25	≥40			
Thermal Parameters									
Operating Temperature	$^{\circ}\!\mathbb{C}$	15~30	15~30	15~30	15~30	15~30			
Storage Temperature ⁴	$^{\circ}\!\mathbb{C}$	0~55	0~55	0~55	0~55	0~55			
Recommended Thermal Dissipation Capacity	W	≥25	≥30	≥25	≥30	≥40			

¹Explanation for the name of Module Type: FL(abbreviation of Focusligth) –FCMSE52 (structure code) -10(output power) -808(center wavelength).



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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.

⁶Can be with or without fiber connector.

⁷If there are any other requirements, please contact us.