

Specification

Module Type ¹	Units	FL-FCMSE56-12-808	FL-FCMSE56-16-976
Optical^{3,6}			
Center Wavelength λ	nm	808	976
Wavelength Tolerance	nm	± 5	± 10
Output Power ²	W	12	16
Spectral Width FWHM	nm	≤ 4	≤ 5
Wavelength Temp. Coefficient	nm/ $^{\circ}$ C	~ 0.28	~ 0.34
Fiber Parameters			
Fiber Numerical Aperture	NA	0.22	0.22
Fiber Core Diameter	μ m	200	200
Connector Type	-	SMA905	SMA905
Fiber length ⁵	m	1.5	1.5
Electrical Parameters^{3,6}			
Operating Current I_{op}	A	≤ 8.5	≤ 9.5
Threshold Current I_{th}	A	≤ 1.8	≤ 0.7
Operating Voltage V_{op}	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	(K Ω)/ β (25 $^{\circ}$ C)	10 \pm 0.5%/3862	10 \pm 0.5%/3862
Red Aiming Beam Parameters	mA	<40@2mW 650nm	<40@2mW 650nm
Thermal Parameters			
Operating Temperature	$^{\circ}$ C	15~30	15~30
Storage Temperature ⁴	$^{\circ}$ C	-20~80	-20~80
Recommended Heatsink Capacity	W	≥ 40	≥ 40

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –FCMSE56(structure code) -12(output power) -808(center wavelength).

²Reduced lifetime if used above nominal operating conditions.

³Data at 25 $^{\circ}$ 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.



For any other special requirements, please feel free to contact us.



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