

Fiber Coupled Multiple Single Emitter FCMSE55 Series (CW)

Specification

Module Type ¹	Units	FL-FCMSE55-15-80	FL-FCMSE55-20-91	FL-FCMSE55-25-94	FL-FCMSE55-25-97
		8	5	0	6
Optical^{3,6}					
Center Wavelength λ	nm	808	915	940	976
Wavelength Tolerance	nm	± 5	± 5	± 5	± 5
Output Power ²	W	15	20	25	25
Spectral Width FWHM	nm	≤ 3	≤ 6	≤ 6	≤ 6
Feedback protection(1040~1100nm)	Db	/	30	30	30
Fiber Parameters					
Fiber Numerical Aperture	NA	0.22	0.22	0.22	0.22
Fiber Core Diameter	μm	200	105	105	105
Fiber length ⁵	m	1.5	1.5	1.5	1.5
Electrical Parameters^{3,6}					
Operating Current I_{op}	A	≤ 7	≤ 8.5	≤ 10.5	≤ 10.5
Threshold Current I_{th}	A	≤ 1.8	≤ 0.7	≤ 0.7	≤ 0.7
Operating Voltage V_{op}	V	≤ 7	≤ 6	≤ 6	≤ 6
Slope Efficiency	W/A	≥ 2.0	≥ 2.3	≥ 2.3	≥ 2.3
Power Conversion Efficiency	%	≥ 38	≥ 45	≥ 45	≥ 45
Thermal Parameters					
Operating Temperature	$^{\circ}\text{C}$	15~30	15~30	15~30	15~30
Storage Temperature ⁴	$^{\circ}\text{C}$	-20~80	-20~80	-20~80	-20~80
Recommended Heatsink Capacity	W	≥ 35	≥ 35	≥ 35	≥ 35

¹Explanation for the name of Module Type: FL(abbreviation of Focuslight) –FCMSE55(structure code) -15(output power) -808(center wavelength)

²Reduced lifetime if used above nominal operating conditions.

³Data at 25 $^{\circ}\text{C}$ 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.



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