

High Power Fiber Coupled Diode Laser

FCMSE55 Series



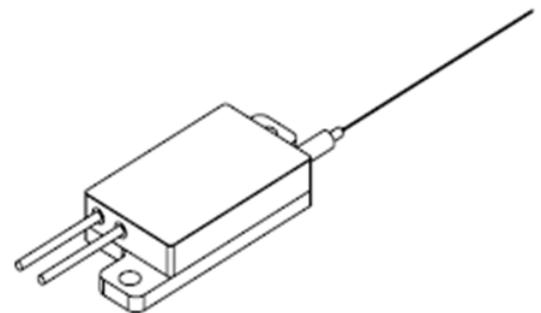
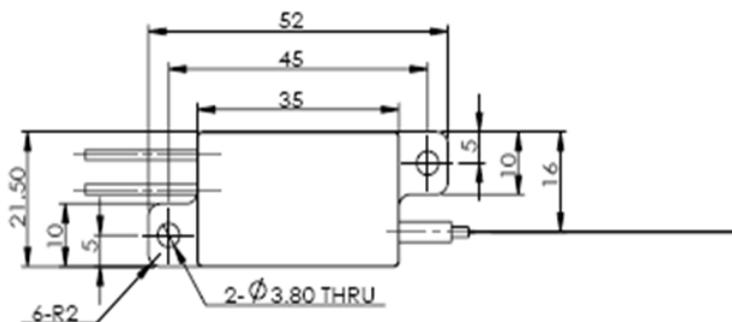
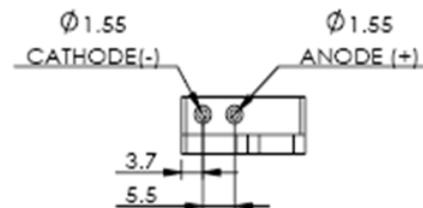
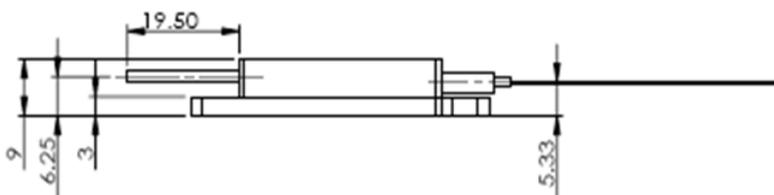
Features

- High brightness
- High power
- Compact housing
- Hermetically sealed housing
- Conduction Cooling

Applications

- Advanced Manufacturing
- Health
- Information Technology
- Scientific Research

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Product Specifications

Product Code	FCE000004	FCE000010
Part No. ¹	FL-FCMSE55-15-808-200	FL-FCMSE55-25-976-105

Optical Data	Unit	Value	Value
CW-nominal output power	W	15	25
Centroid wavelength	nm	808	976
Wavelength tolerance (±)	nm	3	10
Spectral width (FWHM)	nm	/	≤6
Wavelength Temp. drift	nm/°C	~ 0.28	~ 0.34
Feedback Protection (1040nm-1100nm)	dB	/	30

Fiber connection			
Fiber included		Yes	Yes
Fiber core diameter	µm	200	105
Numerical aperture		0.22	0.22
Fiber optic connector ²		SMA905(SF)	SMA905(SF)
Fiber length	m	1.5±0.1	1.5±0.1

Operation Conditions			
Nominal diode heat sink Temp.	°C	25	25
Diode heat sink operation Temp. ³	°C	+20 ... +30	+20 ... +30
Minimum heat sink capacity	W	50	60

Electrical Data			
Max. operation current start of life	A	≤7.3	≤11
Typical threshold current	A	≤1.8	≤0.7
Typical operation voltage	V	≤7	≤6
Typical slope	W/A	≥2.0	≥2.0
Typical E/O efficiency	%	≥38	≥43

Package			
Dimensions	mm ³	63×21.5×9	63×21.5×9
Weight basic package	g	45	45
Storage Temp.	°C	-20 ... +80	-20 ... +80

Measurement			
Fiber		AR coated, 200µm	AR coated, 105µm
Diode heat sink Temp.	°C	25	25

¹ Part No. = Brand Code - Series - Power - Centroid Wavelength - Fiber core diameter.

² SF: flat end.

³ Operation beyond recommended temperature may cause lifetime reduction or even damage to the product.

