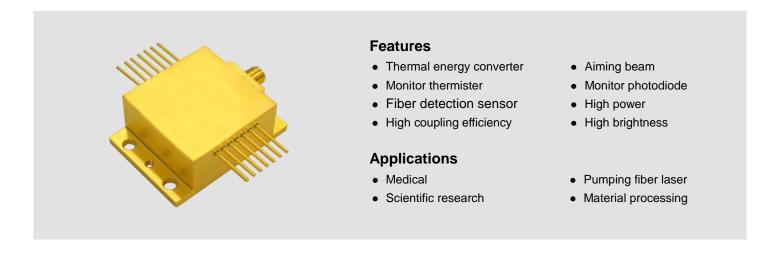
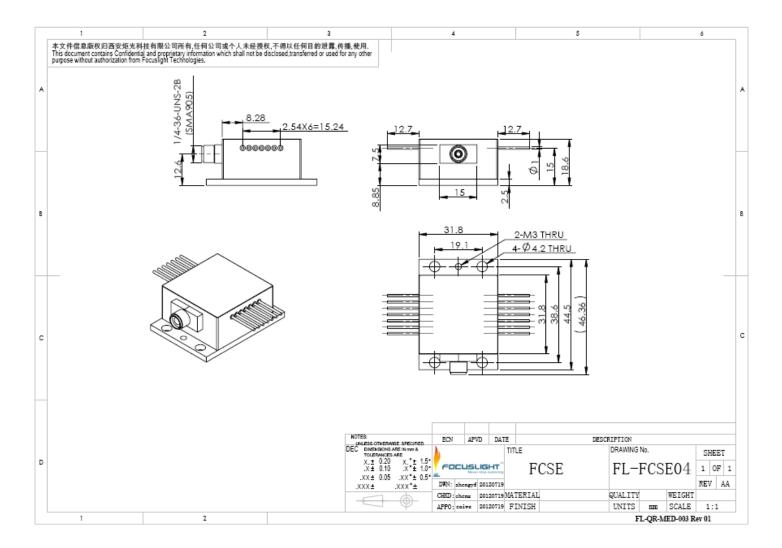


## Fiber Coupled Single Emitter FCSE04 Series (CW)



#### **Device Dimension (mm)**



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



# Fiber Coupled Single Emitter FCSE04 Series (CW)

### **Specification**

Module Type <sup>1</sup>	Units	FL-FCSE04-7-808	FL-FCSE04-8-	FL-FCSE04-8-976
Optical <sup>3,7</sup>				
Center Wavelength λ	nm	808	915	976
Wavelength Tolerance	nm	±3	±5	±5
Output Power <sup>2</sup>	W	7	8	8
Spectral Width FWHM	nm	≪4	≪4	≪4
Wavelength Temp. Coefficien	r nm/℃	∼0.28	$\sim$ 0.3	$\sim$ 0.34
Fiber Parameters				
Fiber Numerical Aperture	NA	0.22	0.22	0.22
Fiber Core/Cladding Diamete	r µm	200	200	200
Connector Type <sup>6</sup>	-	SMA905/ST	SMA905/ST	SMA905/ST
Fiber length <sup>5</sup>	m	1.5	1.5	1.5
Electrical Parameters <sup>3,7</sup>				
Operating Current I <sub>op</sub>	Α	≤8.8	≤9.2	≤9.2
Threshold Current Ith	Α	≤1.8	≪0.8	≪0.8
Operating Voltage V <sub>op</sub>	V	≤2.2	≤2	≤2
Slope Efficiency	W/A	≥0.9	≥0.9	≥0.9
Power Conversion Efficiency	%	≥42	≥45	≥48
Operating Current Imo	mA	0~2	0~2	0~2
Thermistor Rt	(KΩ)/β(25°C)	10±0.5%/3862	10±0.5%/3862	10±0.5%/3862
Aiming Beam Parameters 8	mA	< 40@2mW 650nm	< 40@2mW 650nn	< 40@2mW 650nm
TEC Parameters <sup>8</sup>				
Operating Current It	Α	3	3	3
Operating Voltage Vt	V	8.5	8.5	8.5
Thermal Parameters				
Operating Temperature	$^{\circ}\!\mathbb{C}$	15~30	15~30	15~30
Storage Temperature <sup>4</sup>	${}^{\mathbb{C}}$	-20~80	-20~80	-20~80
Recommended Thermal Dissipation Capacity	W	≥20	≥20	≥20

<sup>&</sup>lt;sup>1</sup>Explanation for the name of Module Type: FL (abbreviation of Focuslight) -FCSE04 (structure code) -8(output power) -976 (center wavelength).

 $<sup>{}^{9}</sup>R_{T}=R_{0}^{*}exp$  (  $\beta(1/T-1/T_{0})$ ), ( $T_{0}=25^{\circ}C=298K$ ).



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<sup>&</sup>lt;sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>&</sup>lt;sup>3</sup>Data at 25°C temperature, unless otherwise stated.

<sup>&</sup>lt;sup>4</sup>A non-condensing environment is required for storage and operation below ambient dew point.

<sup>&</sup>lt;sup>5</sup>Customised fiber length.

<sup>&</sup>lt;sup>6</sup>Customised fiber connector type.

<sup>&</sup>lt;sup>7</sup>If there are any other requirements, please contact us.

<sup>&</sup>lt;sup>8</sup>The customer can choose the four options(Aiming Beam, Thermistor, TEC and PD)