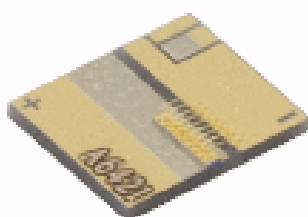


Single Emitter Diode Laser (CW)

COC01



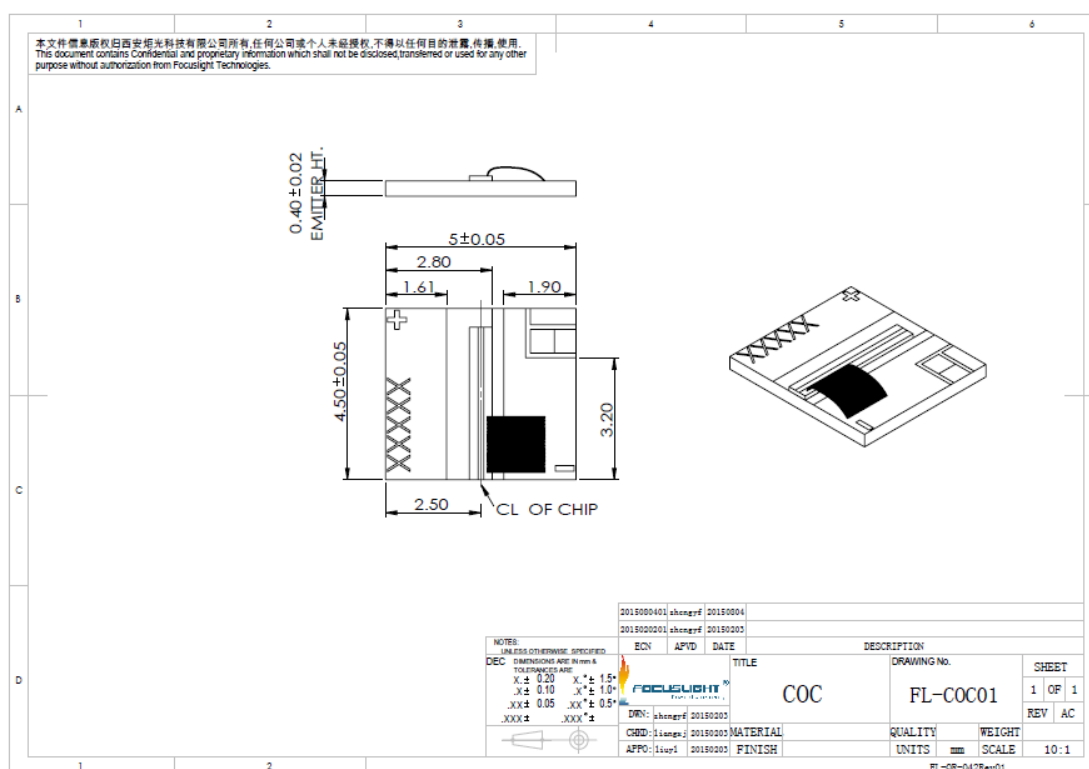
Features

- AuSn bonding
- High stability
- Harsh environment use
- High brightness
- High reliability

Applications

- Display
- Scientific research
- Medical
- Pumping
- Industry

Device Dimension (mm)



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

Specification

Module Type ¹	Units	FL-COC01-10-808	FL-COC01-9-915	FL-COC01-12-940	FL-COC01-12-976
Optical ²					
Center Wavelength λ	nm	808	915	940	976
Wavelength Tolerance	nm	± 3	± 5	± 5	± 5
Output Power ³	W	10	9	12	12
Emitter Width	um	200	100	100	100
Spectral Width FWHM	nm	≤ 3	≤ 4	≤ 4	≤ 4
Spectral Width FW90%E	nm	≤ 5	≤ 6	≤ 6	≤ 6
Fast Axis Divergence(FWHM) ⁴	degree	30	30	30	30
Slow Axis Divergence (FWHM)	degree	8	8	8	8
Polarization Mode	-	TE/TM	TE	TE	TE
Wavelength Temp. Coefficient	nm/°C	~ 0.28	~ 0.32	~ 0.33	~ 0.34
Electrical Parameters ²					
Operating Current I_{op}	A	≤ 11.5	≤ 10.5	≤ 13	≤ 13
Threshold Current I_{th}	A	≤ 1.5	≤ 0.9	≤ 0.9	≤ 0.9
Operating Voltage V_{op}	V	≤ 2	≤ 2	≤ 2	≤ 2
Slope Efficiency	W/A	≥ 1	≥ 1.1	≥ 1.1	≥ 1.1
Power Conversion Efficiency	%	≥ 48	≥ 55	≥ 55	≥ 55
Thermal Parameters					
Operating Temperature	°C	15~30	15~30	15~30	15~30
Storage Temperature ⁵	°C	-40~55	-40~55	-40~55	-40~55
Recommended Heatsink Capacity	W	≥ 20	≥ 24	≥ 24	≥ 24

¹FL(abbreviation of Focuslight) - COC01(structure code) - 10(output power) - 808(center wavelength).

²Data at 25°C temperature, unless otherwise stated.

³Lifetime reduced if overused under nominal operating condition.

⁴Free fast axis.

⁵A non-condensing environment is required for storage and operation below ambient dew point.



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



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