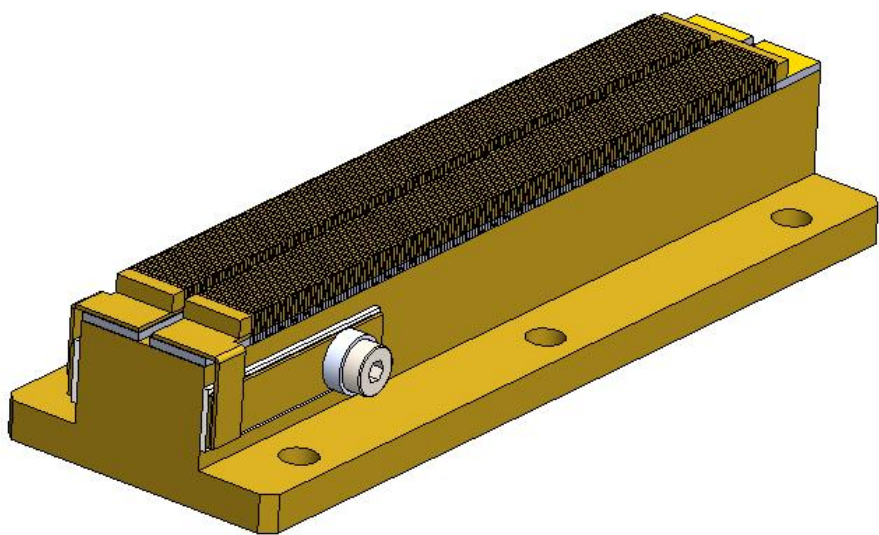


PN: DG-GSH168-Q25.2KW- W7-0.73

QCW 25.2KW Collimated Wavelength 804、807、810、813、795、798、801nm

Conduction Cooled Diode Laser Stack



Version	Change Items	Released Date
Rev 1	Initial	2026.01.07

主要特性 Key Features:

- 金锡焊料封装 / AuSn packaging
- 高可靠性 / High reliability
- 工作温度适应性强 / Wide working temp. flexibility

应用领域 Application:

- 固体激光泵浦/ Solid state laser pump

¹ 在热沉 25 摄氏度下测得。Tested at 25°C heat sink.

² 可根据客户定制。Others available upon request.

¹ 在热沉 25 摄氏度下测得。Tested at 25 °C heat sink.

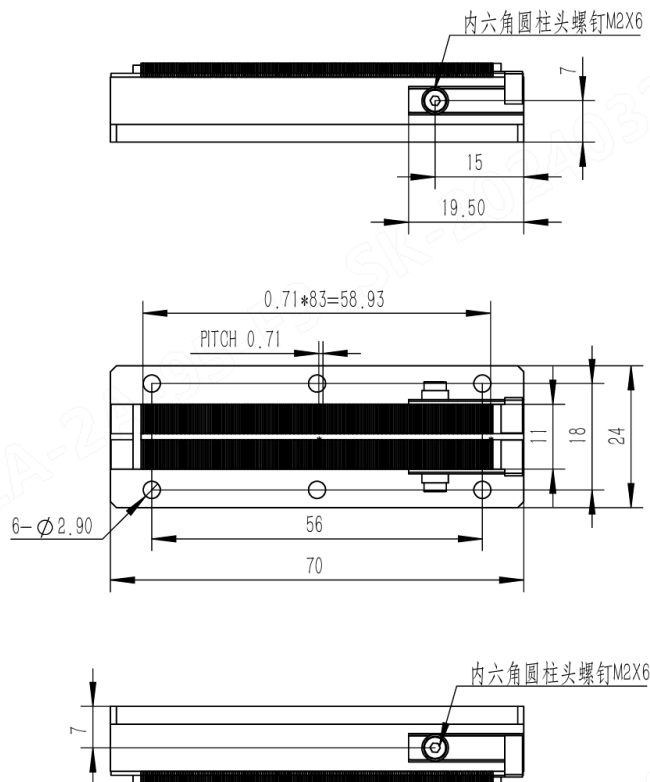
² 可根据客户定制。Others available upon request.

光学参数/ Optical Parameters		
输出峰值功率 ¹ /Output Peak Power ¹	W	≥25.2KW
Bar 条数量/ Number of Bars	-	168
Bar 条间距/ Bar Pitch	mm	0.73
中心波长 A/Center WavelengthA	nm	804
中心波长 B/Center WavelengthB	nm	807
中心波长 C/Center WavelengthC	nm	810
中心波长 D/Center WavelengthD	nm	813
中心波长 E/Center WavelengthE	nm	795
中心波长 F/Center WavelengthF	nm	798
中心波长 G/Center WavelengthG	nm	801
中心波长范围/Center Wavelength Tolerance	nm	±2
光谱宽度/Spectral Width(FWHM)	nm	≥20
快轴发散角 (FWHM) ² /F-Axis Divergence Angle(FWHM) ²	°	70°
慢轴发散角(FWHM)/S-Axis Divergence Angle(FWHM)	°	12°
偏振模式/Polarization Mode	-	TE
电学性能/Electrical Parameters		
电光转换效率/Conversion Efficiency	%	≥50
阈值电流/Threshold Current	A	≤17
工作电流/Operating Current	A	≤150
工作电压/Operation Voltage	V	≤336
热学性能/Thermal Parameters		
工作温度 ³ /Operating Temperature Range ³	°C	25
存储温度/Storage Temperature Range	°C	-50 to 70
温漂系数/Wavelength Temperature Coefficient	nm/°C	~0.28
工作模式 ⁴ /Operation Condition ⁴		
脉冲宽度/ Pulse Width	us	250
占空比/ Duty Cycle	%	0.5
寿命/ Lifetime	shots	1X10 ⁹

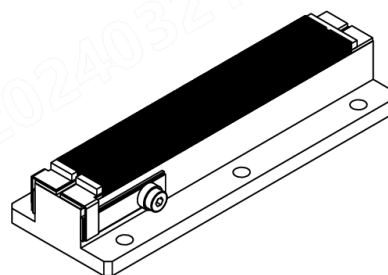
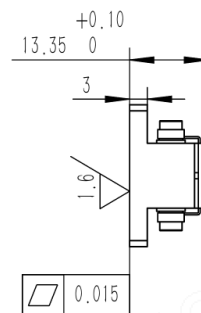
³ 激光波长会随热沉工作温度变化产生漂移。Laser wavelength would shift when heat sink operating temperature is changed.

⁴ 超规格使用会导致激光器寿命下降。Reduced lifetime if used above nominal operating condition.

DG-GSH168-Q25.2KW-W7-0.73:



其他: $\frac{0.8}{\sqrt{}}$



Customized dimension available upon request

使用说明 Application Notes:

- 叠阵输出激光是不可见光，使用时须遵守 IEC 四级激光标准安全规范，避免激光直接或间接照射眼睛；
The laser beam is invisible, please follow the standard safety procedures for IEC Class 4 lasers, avoid eyes exposure to radiation;
- 静电击穿导致半导体激光器失效，激光器安装人员须经过培训，操作时须佩戴防静电手腕带，工作台需接地；在供电连接头与激光器连接前，正负极应处于短接状态；
ESD cause diode laser failure, The operator should be trained, wearing ESD grounding straps and the work surface should be grounded. The positive and negative poles shall be connected before the power supply is connected with the laser;
- 电流过冲可能损坏激光器，驱动电源须稳定无过冲。
The current overshoot may damage the laser, and the driving power must be stable without overshoot.

