

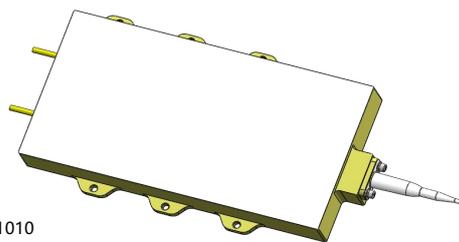
# PN:976DC880220-S

## 应用领域Applications:

- 光纤激光器泵浦 Fiber laser pumping

## 版本变更说明:

- Rev A1: Preliminary---240806
- Rev A2: Update operating current and voltage---240910
- Rev A3: Update power, wavelength and 95%NA---241004
- Rev A4: Update wavelength, current, voltage and mechanical dimensions ---241010
- Rev A5: Update mechanical dimensions ---241128
- Rev A6: Update FWHM, fiber, mechanical dimensions, current and conversion efficiency---241204
- Rev A7: Update wavelength---241231



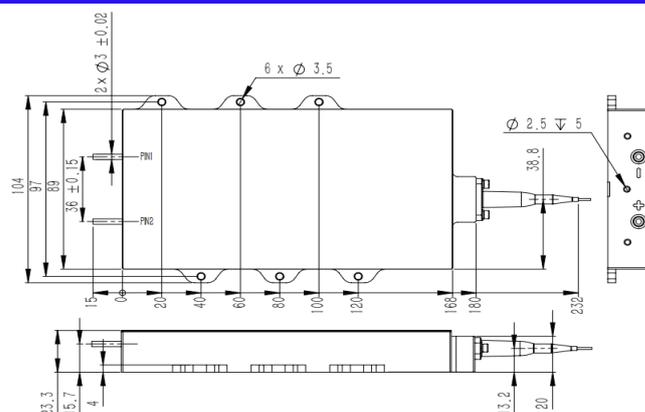
光学参数 <sup>1</sup> /Optical Parameters <sup>1</sup>	Unit	Minimum	Typical	Maximum
输出功率/Output Power	W	880	900	
中心波长 <sup>2</sup> /Center Wavelength <sup>2</sup> @32A	nm	975.5	977.5	979.5
光谱宽度/Spectral Width(FWHM)	nm		6	7
95%出光NA/95% Power Within NA	NA			0.18
防反射波段/Back Reflection Isolation Range	nm	1040	1064	1200
防反射隔离度/Back Reflection Isolation	dB	30		

光纤参数/Fiber Parameters				
纤芯直径/Fiber Core Diameter	μm	216		221
包层直径/Fiber Clad Diameter	μm	239	242	245
纤芯数值孔径/Core Numerical Aperture	NA	0.20	0.22	0.24
包层数值孔径/Cladding Numerical Aperture	NA	0.46		
光纤长度 <sup>2</sup> /Fiber Length <sup>2</sup>	m	2.0		
套管直径/Loose Tubing Diameter	mm	1.1	1.4	
套管长度/Loose Tubing length	m	1.5		
光纤接头/Fiber Connector			Bare Fiber/SC Ceramic Ferrule	
弯曲半径/Fiber Bend Radius	mm	65		

电学性能 <sup>3</sup> /Electrical Parameters <sup>3</sup>				
光电转换效率/Conversion Efficiency	%	50.5		
阈值电流/Threshold Current	A		2.1	
工作电流 <sup>3</sup> /Operating Current <sup>3</sup>	A			32.0
工作电压 <sup>3</sup> /Operating Voltage <sup>3</sup>	V	52.5	53.5	54.5

热学性能 <sup>3</sup> /Thermal Parameters <sup>3</sup>				
工作温度 <sup>4</sup> /Operating Temperature Range <sup>4</sup>	°C	5		45
壳体温度 <sup>1,4</sup> /Package Temperature Range <sup>1,4</sup>	°C			45
盖板温度 <sup>1</sup> /Lid Temperature Range <sup>1</sup>	°C			60
Boot温度 <sup>1</sup> /Boot Temperature Range <sup>1</sup>	°C			45
存储温度/Storage Temperature Range	°C	-30		85
温漂系数/Wavelength Temperature Coefficient	nm/°C		0.35	
加电脚焊接温度/Lead Soldering Temperature	°C		400	420
加电脚焊接时间/Lead Soldering Time	s			5

## 机械尺寸图/Mechanical Dimensions Drawing



单位/Unit mm

重量典型值/Typical value of weight < 1.9kg

<sup>1</sup> 在25摄氏度冷板温度下测得。Tested at 25°C cold plate temperature.

<sup>2</sup> 可根据客户需求定制。Others available upon request.

<sup>3</sup> 超规格使用会导致激光器寿命减少。Reduced lifetime if used above nominal operating conditions.

<sup>4</sup> 激光波长会随壳体工作温度变化产生漂移。Laser Wavelength would shift when package operating temperature is changed.

<sup>5</sup> 未注尺寸公差±0.05mm。Dims tolerance±0.05mm.

※盖板采用柔性设计，有效减少壳体变形。使用过程中，发生响声属于正常现象，不影响产品的性能和可靠性。