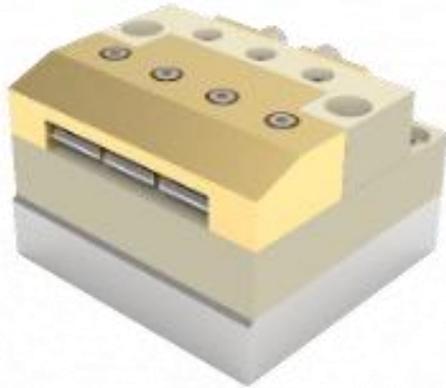# ePhotonics

940nm 600W Micro Channel Cooled Horizontal Stack

E2Y-940D-600C-HO1.1(3x1)

Features:

- 940nm wavelength
- 600W output power
- Long lifetime

Applications:

- Pumping
- Scientific Research
- Material Processing

Specifications		Unit	E2Y-940D-600C-HO1.1(3x1)		
			Minimum	Typical	Maximum
Optical Data[1]	Working Mode	-	CW		
	Central Wavelength	nm	937	940	943
	Wavelength Accuracy	nm	-	±3	-
	Output Power Per Bar	W/bar	-	200	-
	Bar Numbers	pcs	-	3	-
	Bandwidth (FWHM)	nm	-	3	6
	Fast Axis Divergence with FAC (90% power)	mrad	-	7	10
	Slow Axis Divergence (95% power)	deg	-	7.5	9
Electrical Data	Threshold Current	A	-	23	28
	Operating Current	A	-	215	230
	Operating Voltage	V/bar	-	1.6	1.8
	Slope	W/A	-	3.3	3.5
	Efficiency	%	55	60	-
Bar Specification	Emitter Width	µm	200±5		
	Emitter Pitch	µm	400±5		
	Filling Factor	%	50		
Others	Pressure	bar	<5		
	Flow Rate	L/min/bar	0.25~0.33		
	Cooling Water Temperature[3]	℃	22	25	28
	Cooling Water Specification	/	Deionized water 2.5±0.5µS/cm,pH-value 5.5-8,filter≤5µm		

(1) Data measured under operation at nominal output power @25±3℃.

(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case. Acceptable operating range is 22℃~28℃, but performance may vary.

(4) The data above are for reference only. For specific data, please refer to the delivery package data.

For purchase, questions, and quotes: contact@ephotonics.com ● ephotonics.com

940nm 600W Micro Channel Cooled Horizontal Stack

E2Y-940D-600C-HO1.1(3x1)

Package Dimensions (mm)
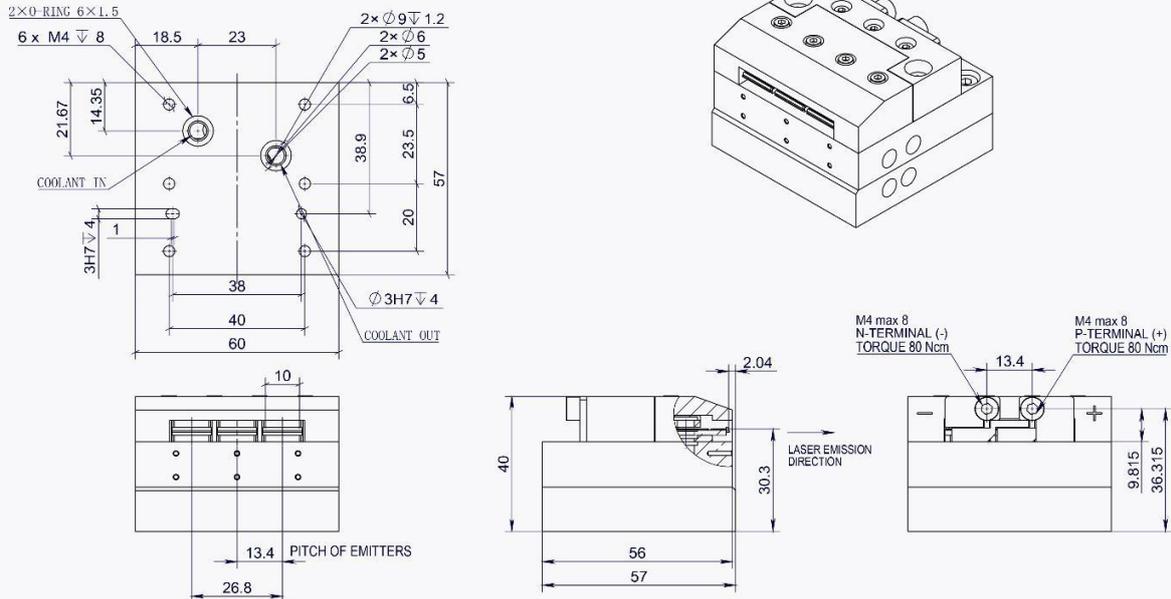
OPERATING NOTES

- Avoid eye and skin exposure to direct radiation during operation.
- ESD precautions must be taken during storage, transportation and operation.
- Short-circuit is required between pins during storage and transportation.
- Use constant current power supply to avoid surge current during operation.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- Operation temperature ranges from 22℃ to 28℃.
- Storage temperature ranges from 0℃ to +55℃.