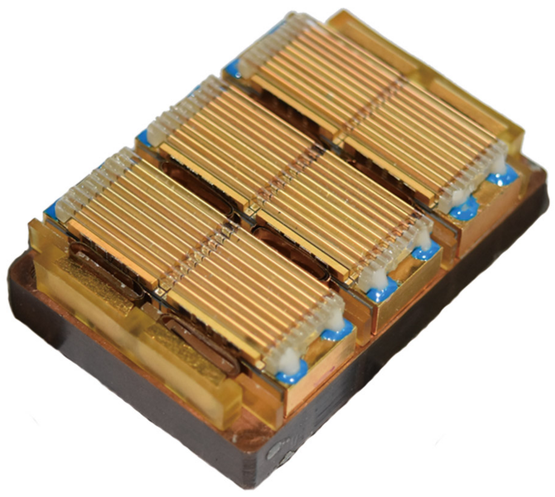
Stack – QCP–M

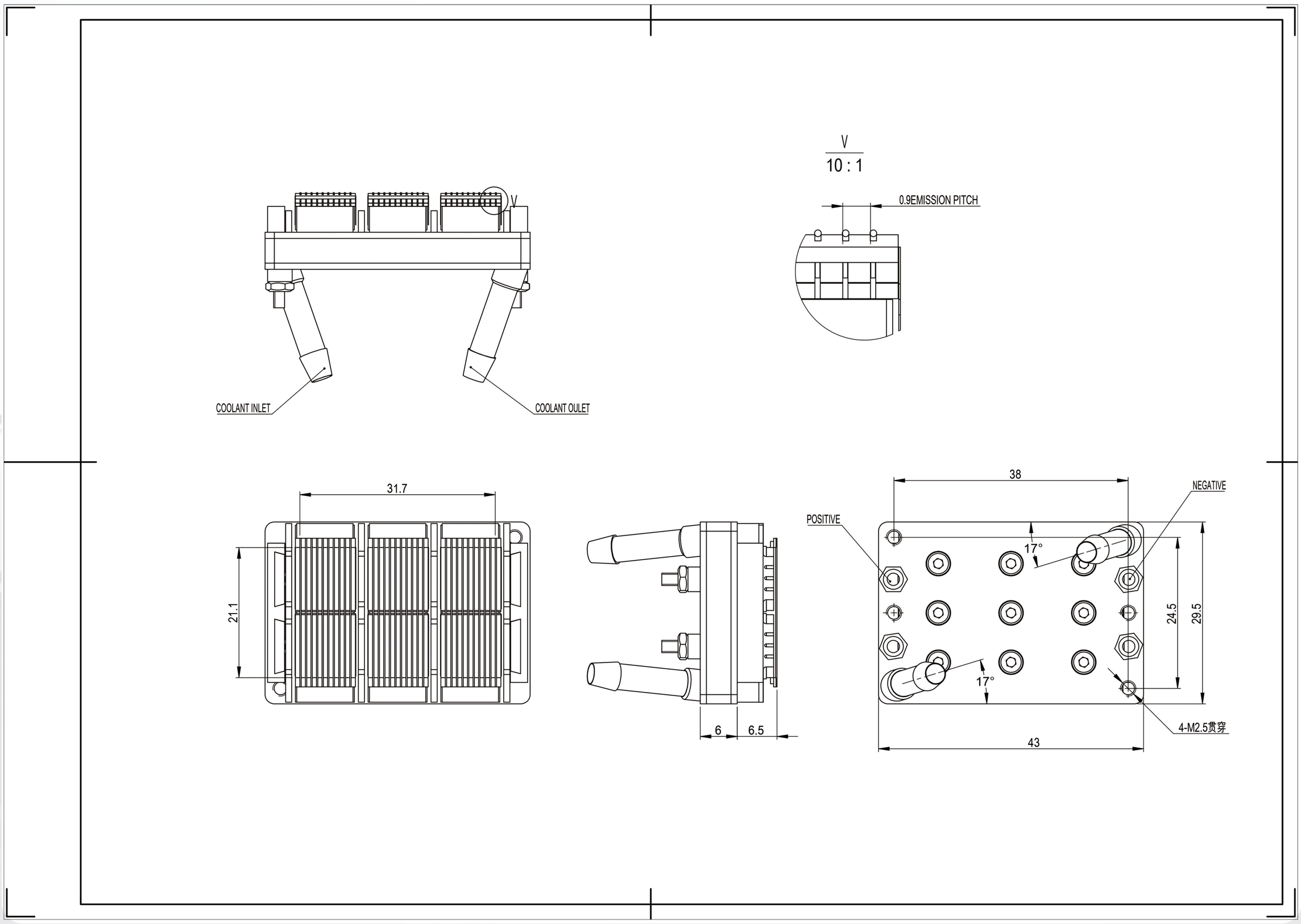


Application

Medical
Pump
R&D

Features

AuSn Hard Solder
High Efficiency
Cost Effective
High Reliability
Long Lifetime



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QCP Serial - QCP-M		Item Number[1] EB-QCP-M60-2400Q-0808-10		
Parameter	Unit	Min	Type	Max
Optical[2]				
Center Wavelength	nm	798	808	818
Wavelength Tolerance	nm		±10	
Output Power/Bar[5]	W		40	
Number of Bars	#		60	
Total Output Power	W		2400	
Bar-to-Bar Spacing	mm		0.9	
Spectral Width (FWHM)	nm	6	8	10
Pulse Width	msec		10-100	
Repetition Rate	Hz		1-10	
Fast-axis Divergence (FWHM) [4]	Deg	38	40	42
Slow-axis Divergence (FWHM)	Deg	8	10	12
Wavelength Temperature Coefficient	nm/℃		0.28	
Electrical[2]				
Power Conversion Efficiency	%	48	50	
Slope Efficiency	W/A		1.1	1.2
Threshold Current	A	8	10	12
Operating Current	A	48	50	52
Operating Voltage/Bar	V		1.8	2
Thermal				
Operating Temperature[3]	℃	15	25	
Storage Temperature[3]	℃		-40~85	
Water Velocity	l /min		6-12	
Entrace Maximum Pressure	psi		55	
Water Type	-		普通水	
Pure Water Filter Particles	μs		＜50	

Notes

1. Explanation of Item Number: EB (Everbright In Short) - QCP (Conduction-Cooled Package) –V#(Number of bars per stack) - 2400Q (QCW Output Power is 2400) - 0808 (Center Wavelength is 808nm) - 10 (Wavelength Tolerance is ±10nm)

2. Above Data Test at 25℃, Unless otherwise stated.

3. Please avoid operation and storage in the condensation enviroment. If exceed operating temperature, the device lifetime will be inpacted.

4. For fast-axis collimation, divergence ≤0.5°

5. Lifetime reduced if exceed nominal output power.

Version: ZL05-1807B-R01

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