

## EB-4ch VCSEL-6.5-850-100-02



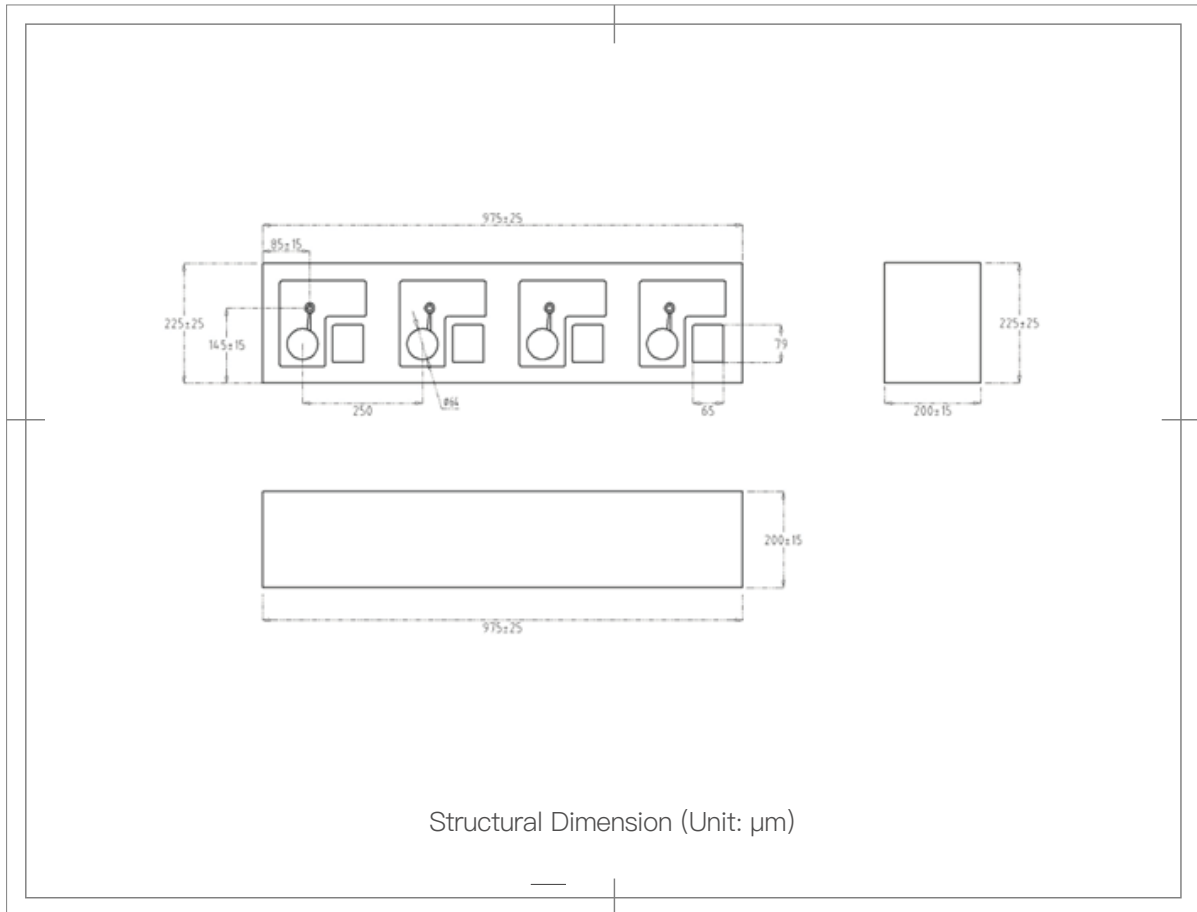
Product Code	Description	Type	Date Rate	Operating Temperature
EB-4ch VCSEL-6.5-850-100-01	850nm 1x4 100G PAM4 VCSEL Array	Array,1*4	106G	5~75°C

### Characteristics

	Unit	Min	Typical	Max	Notes
Operating Temperature	°C	5		75	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Average Operating Current	mA			9	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Average Optical Power	mW	2.5		6	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Forward Voltage for LD	V			2.5	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Series Resistance	$\Omega$	50		85	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Center Wavelength	nm	844		868	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Spectral Width (RMS)	nm			0.65	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Beam Divergence	deg.			33	$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
3 dB Bandwidth	GHz		25		$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$
Relative Intensity Noise (Average)	dB/Hz		-146		$I_{op} = 9mA, T_s = 5^{\circ}C \sim 75^{\circ}C$

### Remarks

1. Explanation of Item Number: EB (Everbright in short)-4ch VCSEL-6.5-850(Wavelength)-100 (Data rate 100G)-02 (Version Number)
2. Test Condition:  $T_{op} = 5^{\circ}C \sim 75^{\circ}C, I_{op} = 9mA$
3. When used under extreme operating conditions, it will cause permanent damage to the chip.
4. Long-term use under near-limit operating conditions may adversely affect product performance and life.
5. Take general ESD precautions when operating the chip. The chip is delivered in an ESD package, after removing the chip from the package, use it in an environment where ESD is taken, including but not limited to a standard grounding workbench, foot pad, and wrist strap.



**Applications**



Data Center Application

**Features**



Qualified for Non-hermetic Packages



Data Rate: 106Gbps



Work Wavelength: 850nm



Support 100m Transmission



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