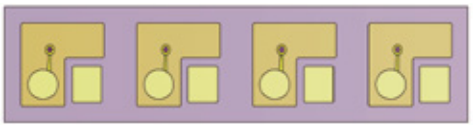
EB-4ch VCSEL-5.25-850-50-01



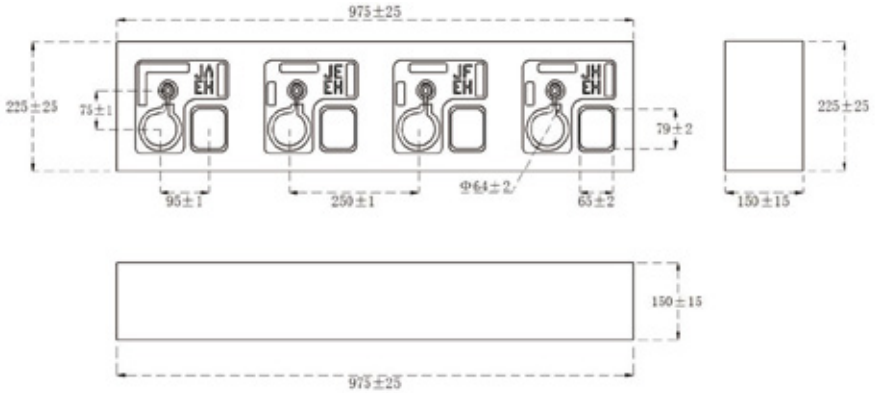
Product Code	Description	Type	Date Rate	Operating Temperature
EB-1ch VCSEL-5.25-850-50-01	50G PAM4 VCSEL	Single Chip	50G	5~75°C
EB-2ch VCSEL-5.25-850-50-01	1 x 2 50G PAM4 VCSEL Array	Array, 1*2	50G	5~75°C
EB-4ch VCSEL-5.25-850-50-01	1 x 4 50G PAM4 VCSEL Array	Array, 1*4	50G	5~75°C

Characteristics

	Unit	Min	Typical	Max	Notes
Average Operating Current	mA			7.5	T_s = 5°C~75°C
Threshold Current	mA	0.2		1.5	T_s = 5°C~75°C
Output Power	mW	2		4.7	I_f = 7.5 mA, T_s = 5°C~75°C
Slope Efficiency	W/A		0.45		I_f = 7.5 mA, T_s = 5°C~75°C
Forward Voltage	V			2.5	I_f = 7.5 mA, T_s = 5°C~75°C
Series Resistance	Ohm	50		80	I_f = 7.5 mA, T_s = 5°C~75°C
Center Wavelength	nm	840	850	860	I_f = 7.5 mA, T_s = 5°C~75°C
Center Wavelength Temperature Variation	nm/°C		0.065		
Spectral Width (RMS)	nm		0.4	0.6	I_f = 7.5 mA, T_s = 5°C~75°C
Small Signal Modulation Bandwidth	GHz		19		I_f = 7.5 mA, T_s = 5°C~75°C
Relative Intensity Noise	dB/Hz		-146	-140	I_f = 7.5 mA, T_s = 5°C~75°C

Remarks

1. Explanation of Item Number: EB (Everbright in short)-4ch VCSEL(Vertical-Cavity Surface-Emitting Laser)-5.25(Power dBm) -850(Wavelength)-50(Date Rate 为 50Gbps)-01(Version Number)
2. It is a 150um thick, 850 nm wavelength, GaAs-based vertical cavity surface emitting laser (VCSEL) array that is designed for 200/400 Gbps Ethernet optical links on multimode fiber.
3. When used under extreme operating connditions, 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. Normal ESD precautions are required during the handling of this chip. This chip is shipped in ESD protective packaging. It should be removed from the packaging and otherwise handled in an ESD protected environment utilizing standard grounded benches, floor mats, and wrist straps.



Structural Dimension (Unit: μm)

Applications

- 50G/200G/400G Ethernet
- 200G to 100G Breakout

Features

- High Bandwidth
- Narrow Spectral Width
- Low RIN

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