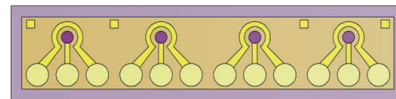


EB-PIN-850-100-01



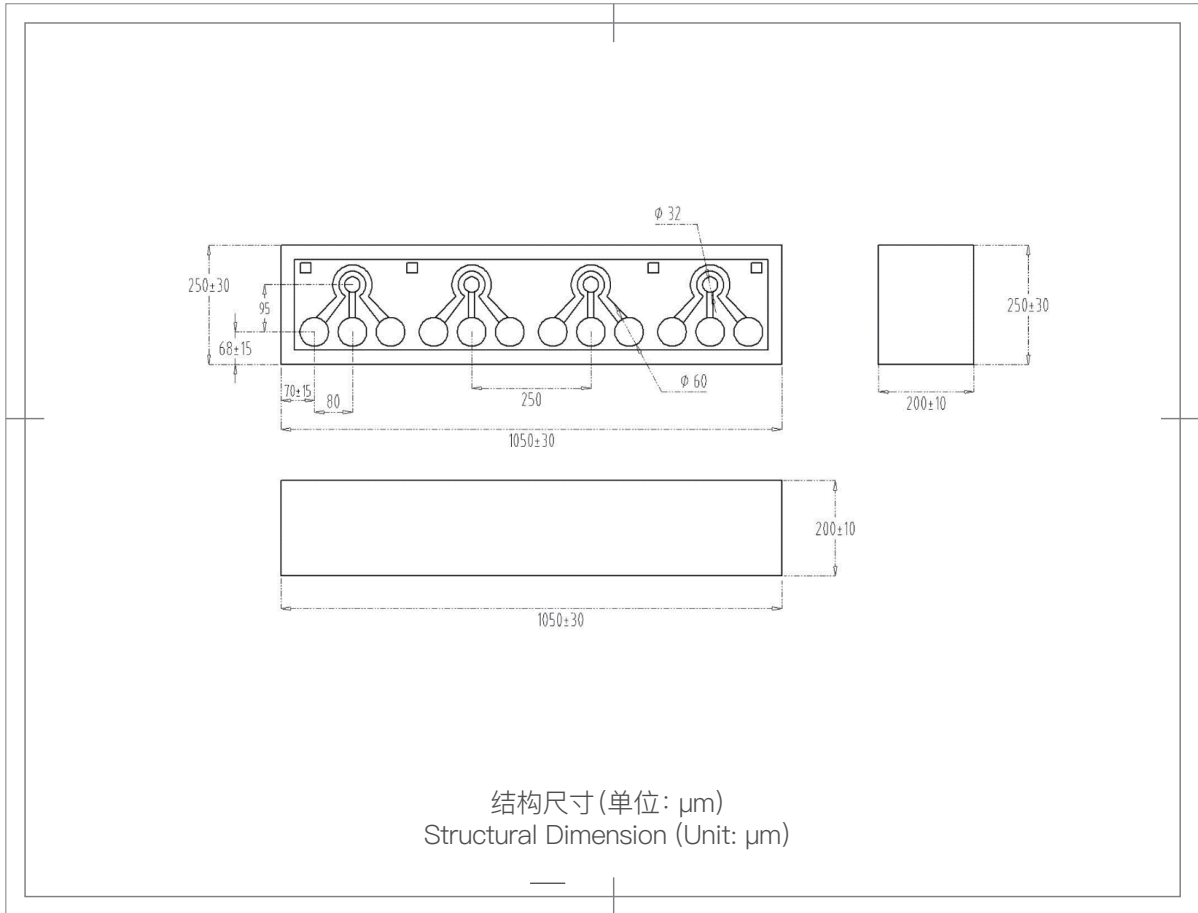
产品型号 Product Code	描述 Description	形态 Type	速率 Data Rate	工作温度 Operating Temperature
EB-4ch PIN-850-100-01	850nm 1 x 4 100G PAM4 PD Array	Array,1*4	106G	0~85°C

特征/Characteristics

	单位 Unit	最小值 Min	典型值 Typical	最大值 Max	测试条件 Notes
工作温度/Operating Temperature	°C	0		85	
响应度//Responsivity	A/W	0.5	0.55		$\lambda_{op} = 850\text{nm}$, $V_r = 2\text{V}$, $P_{in} = 0\text{dBm}$
暗电流/Dark Current	nA			1	$V_r = 2\text{V}$
击穿电压/Breakdown Voltage	V	20			$I_d = -10\mu\text{A}$
电容/Capacitance	fF		95		$V_r = 2\text{V}$
工作波长/Operating Wavelength	nm	840	850	940	
孔径/Diameter of Aperture	μm		32		
3dB带宽 (15 Ω TIA) /3 dB Bandwidth (15 Ω TIA)	GHz		36		$\lambda_{op} = 850\text{nm}$, $P_{in} = -3\text{dBm}$

备注 /Remarks

- 规格型号命名规则：EB (长光华芯缩写) PIN-850(工作波长)-100(产品速率 100G)-01(版本号)
 - 所有测试在 25°C 下进行。
 - P_{in} 代表入射光功率。
 - 该芯片采用 ESD 保护包装发货, 将其从包装中取出后, 应在采取 ESD 防护措施的环境中使用, 包括但不限于采用标准接地工作台、脚垫和腕带等 ESD 防护措施。
 - 在超过极限工作条件下使用时, 会对芯片造成永久性损坏。
 - 在临近极限工作条件下长期使用, 可能会对产品性能和寿命产生不利影响。
- Explanation of Item Number: EB (Everbright in short) PIN-850(Wavelength)-100(Data rate 100G)-01 (Version Number)
 - Test Condition: 25°C
 - P_{in} is input power.
 - 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.
 - When used under extreme operating conditions, it will cause permanent damage to the chip.
 - Long-term use under near-limit operating conditions may adversely affect product performance and life.



应用领域 / Applications



数据中心
Data Center Application

产品特点 / Features



满足非气密性封装要求
Qualified for Non-hermetic Packages



低暗电流
Low Dark Current



波长: 840nm-940nm
Working Wavelength: 850nm-940nm



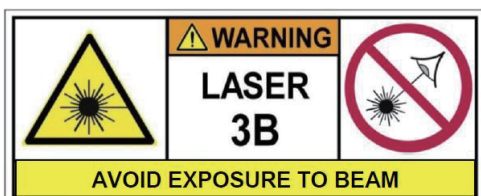
高响应度
High Responsivity



产品速率: 106Gbps
Data Rate: 106Gbps



高带宽
High Bandwidth



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