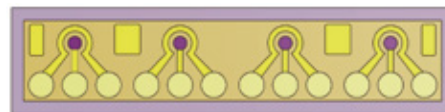


EB-4ch PIN-850-50-01



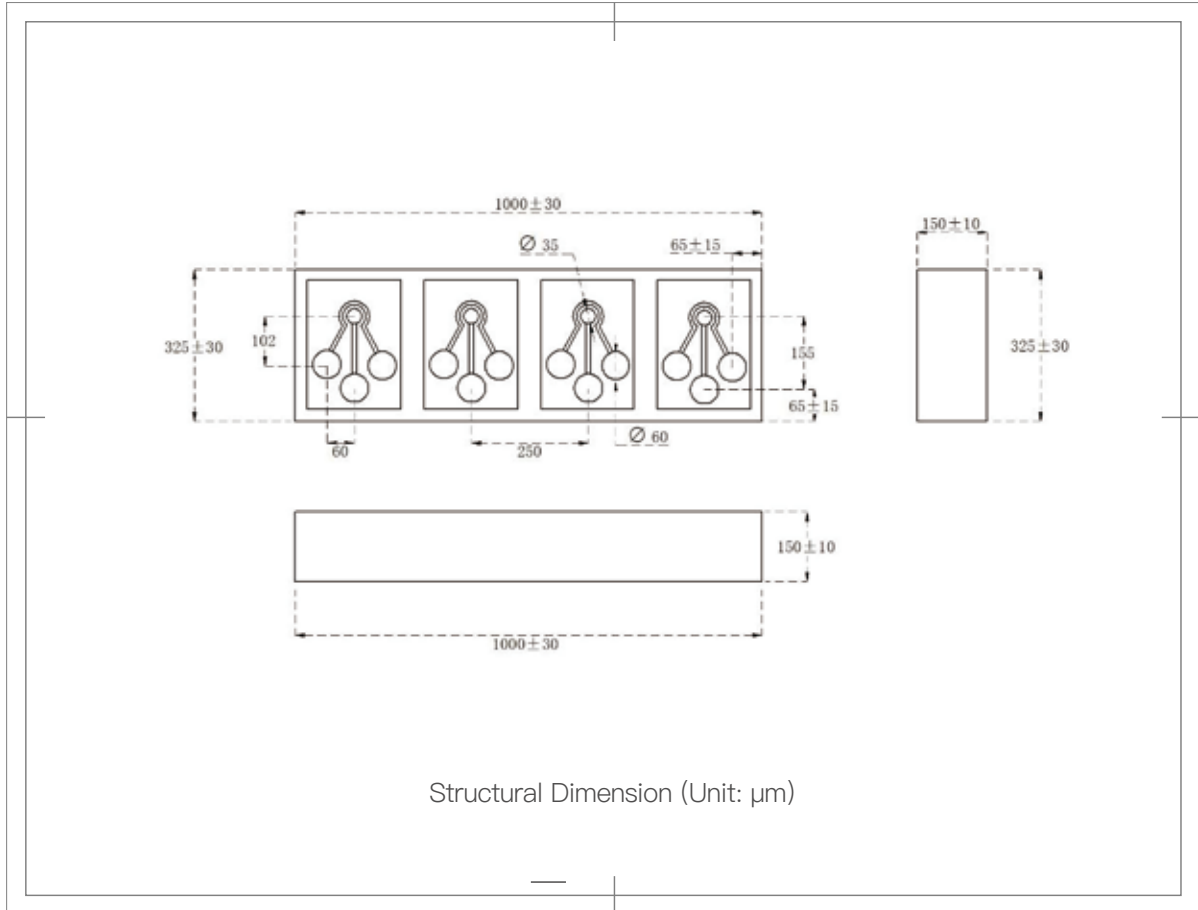
Product Code	Description	Type	Operating Temperature
EB-4ch PIN-850-50-01	850nm 1x4 50G PIN PD Array	Array, 1*4	0~85°C
EB-1ch PIN-850-50-01	850nm 1x1 50G PIN PD Array	Single Chip	0~85°C

Characteristics

	Unit	Min	Typical	Max	Test Condition
Responsivity	A/W	0.5	0.55		$\lambda_{op} = 850 \text{ nm}, P_{in} = 0 \text{ dBm}, V_r = 2 \text{ V}$
Dark Current	nA			0.5	$V_r = 2 \text{ V}, T = 25^\circ\text{C}$
	nA			20	$V_r = 2 \text{ V}, T = 85^\circ\text{C}$
Breakdown Voltage	V	20			$I_d = -10 \mu\text{A}$
Capacitance	fF		130		$V_r = 2 \text{ V}, f = 1 \text{ MHz}$
Operating Wavelength	nm	840	850	940	
Diameter of Aperture	μm		35		
3dB Bandwidth	GHz		17		$\lambda_{op} = 850 \text{ nm}, P_{in} = -3 \text{ dBm}, V_r = 2 \text{ V}, T = 25^\circ\text{C}$
	GHz		15		$\lambda_{op} = 850 \text{ nm}, P_{in} = -3 \text{ dBm}, V_r = 2 \text{ V}, T = 85^\circ\text{C}$

Remarks

1. Explanation of Item Number: EB (Everbright in short) -4ch PIN-850(Wavelength) -50 (Data rate 50G) -01 (Version Number)
2. When used under extreme operating conditions, it will cause permanent damage to the chip.
3. Long-term use under near-limit operating conditions may adversely affect product performance and life.
4. 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 Communication

Features



High Bandwidth and Responsivity



Working Wavelength Range:
840nm-940nm



Low Dark Current



Top-illuminated 35 μm Aperture



Qualified for Non-hermetic Packages

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Notice: Everbright keep improving its products to provide our customers with outstanding quality and reliability. We may change the specification and product description without notice at any time. For complete details, please contact Everbright sales representative.

