

PDCA12-70-S

Short / Long Wavelength 12 x 5 Gb/s Photodiode Array

Product Description

The PDCA12-70-S is a fully qualified 12 channel photodiode array with a dual-pad layout and an optical aperture with a diameter of 70 μm allowing easy coupling to both multi-mode and single-mode fibers. The top illuminated photodiode array is optimized for high-throughput parallel optical interconnects up to 5 Gb/s per channel and has a photodiode pitch of 250 μm for coupling to standard fiber ribbon cable. Each photodiode has a low capacitance and achieves full speed at a bias voltage of only 1.5 V.

Highlights

- Large optical aperture: 70 μm
- Large bandwidth: 5 GHz
- Low dark current: 8 nA
- Low bias voltage: 1.5 V

Applications

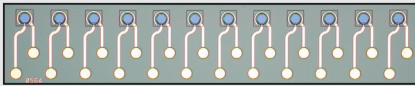
- Parallel optical interconnects

Options

- Wavelength specific, extremely low reflectivity AR coatings

Availability

- Volume production



Dimensions: 3095 x 640 μm

Characteristics (T = 25 °C)

Parameter	Sym	U _R	Min	Typ	Max	Unit
Diameter of optical aperture	\varnothing			70		μm
Number of photodiode elements	N			12		
Responsivity	$\lambda = 850 \text{ nm}$	R	2.5 V	0.50		A/W
	$\lambda = 1310 \text{ nm}$			0.80	0.90	
	$\lambda = 1550 \text{ nm}$			0.80	0.90	
Dark current	T = 25 °C	I _D	5 V	8	20	nA
	T = 85 °C				400	
Bandwidth	B	2.5 V		3	6	GHz
Total capacitance	C	2.5 V		500		fF

For detailed product information visit www.albisopto.com



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