

Opto Speed**8-Channel InGaAs p-i-n
Photodiode Array Module****PDMA08-70****■ FEATURES**

1x8 p-i-n photodiode array module
SOIC package with fiber ribbon pigtail
High speed of response
Individual contacts for each photodiode
AR-coatings for 830, 1300 or 1500 nm

**■ PRODUCT DESCRIPTION**

Opto Speed's PDMA08-70 is a linear 1 x 8 InGaAs photodiode array module based on a top-illuminated p-i-n structure. The low-capacitance device is packaged in a compact, robust SOIC package with fiber ribbon pigtail. The devices offer excellent responsivity and superior high speed of response in the wavelength region from 800 to 1600 nm.

■ SPECIFICATIONS @ $V_r=2.5V$, $T = 25^\circ C$

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT
Responsivity $\lambda = 830 \text{ nm}$ $\lambda = 1300 \text{ nm}$ $\lambda = 1550 \text{ nm}$	$\mathcal{R}$	0.3 0.75 0.5	0.4 0.8 0.8	0.9	A/W
Variation of Responsivity ^a	ΔR		5	20	%
Optical Crosstalk ($\lambda = 1300 \text{ nm}$) to adjacent to second to seventh	C_{Opt}		-27 -30 -37		dB
Dark Current	I_D		10	40	nA
Capacitance	C		0.7	0.9	pF
Speed of Response	t_r, t_f			300	ps
Reverse Breakdown Voltage Reverse Leakage Current $>10 \mu A$	V_B	20			V

a. with angled MPO connector on SM fibre ribbon