

MXP1042 PC/PV - B
MXP1043 PC/PV - B
MXP1044 PC/PV - B

Blue Enhanced Photo Detectors

Features

- Photovoltaic
- Ultra High Shunt Resistance
- Ultra Low Noise
- Photoconductive

Applications

- Biomedical Test Equipment and Instruments
- Fluorescence Analysis

Electrical Characteristics @ 25°C

PV DEVICE #	ACTIVE AREA		R	C _J	R _{SH}	NEP	T _R
	mm ²	Dia. Inch	450nm A/W	0V / 1kHz pF	+/- 10 mV MOhms	450nm/1kHz W/(Hz) ^{1/2}	0V/450nm 50Ohm Load ns
MXP1042 PV-B	1.0	0.044	0.20	150	5,000	1 X 10 ⁻¹⁴	18
MXP1043 PV-B	5.1	0.100	0.20	550	500	5 X 10 ⁻¹⁴	70
MXP1044 PV-B	100	0.444	0.20	50	50	2 X 10 ⁻¹³	1,300

PHOTOVOLTAIC

PC DEVICE #	ACTIVE AREA		R		ID		V _B	C _J		NEP	T _R		
	mm ²	Dia. Inch	450nm	PEAK	0.01V	-10V	10μA V	1kHz pF	0 V	-10 V	10V/450nm 1kHz W/(Hz) ^{1/2}	0 V	-10 V
	A / W		nA		min						ns		
MXP1042 PC-B	1.0	0.044	0.20	0.50	0.01	2.0	50	25	10	5 X 10 ⁻¹⁴	4	2	
MXP1043 PC-B	5.1	0.100	0.20	0.50	0.10	10.0	50	100	25	1 X 10 ⁻¹³	13	4	
MXP1044 PC-B	100	0.444	0.20	0.50	1.00	100	50	2,000	650	5 X 10 ⁻¹³	230	80	

PHOTOCONDUCTIVE