

**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

Datasheet.Live

### Electrical Characteristics @ 25°C

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

PHOTOVOLTAIC

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

PHOTOCONDUCTIVE