

**MXP1048 PC/PV - IR**  
**MXP1049 PC/PV - IR**  
**MXP1050 PC/PV - IR**  
**MXP1002 PC/PV - IR**

## IR Enhanced Photo Detectors

### Features

- High Break Down Voltage
- Low Dark Current
- Low Noise
- Fast Rise/Fall Time

### Applications

- Fiber Optics
- Military / Aerospace
- Industrial Controls

### 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	900nm A/W	0V / 1kHz pF	+/- 10 mV MOhms	900nm / 1kHz W/(Hz) <sup>1/2</sup>	0V/900nm 50Ohm Load ns
MXP1048 PV-IR	1.0	0.044	0.5	150	5,000	5 X 10 <sup>-15</sup>	5,000
MXP1049 PV-IR	5.1	0.100	0.5	550	500	2 X 10 <sup>-14</sup>	500
MXP1050 PV-IR	100	0.444	0.5	11,000	50	1 X 10 <sup>-13</sup>	50
MXP1002 PV-IR	1.8	0.10 x .028	0.5	275	2,500	3 X 10 <sup>-14</sup>	2,500

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	900nm	PEAK	0.01V	-1.0V	-10V	10 μA V	0 V	-1 V	-10 V	10V/900nm 1kHz W/(Hz) <sup>1/2</sup>	0 V	-10 V
MXP1048 PC-IR	1.0	0.044	0.5	0.6	0.01	0.10	2.0	50	25	20	10	5 X 10 <sup>-14</sup>	1,000	50
MXP1049 PC-IR	5.1	0.100	0.5	0.6	0.10	1.00	10.0	50	100	85	35	1 X 10 <sup>-13</sup>	3,000	100
MXP1050 PC-IR	100	0.444	0.5	0.6	1.00	10.0	100	50	2,000	1,700	650	5 X 10 <sup>-13</sup>	5,000	500
MXP1002 PC-IR	1.8	0.10 x 0.28	0.5	0.6	0.20	0.20	5.0	50	50	40	20	1 X 10 <sup>-13</sup>	2,000	50

PHOTOCONDUCTIVE