

MXP1039 PC/PV - V
MXP1040 PC/PV - V
MXP1041 PC/PV - V
MXP1000 PC/PV - V

Visible Enhanced Photo Detectors

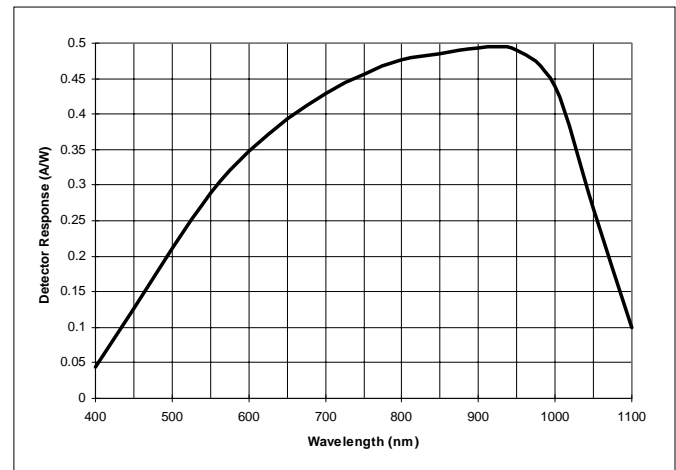
Features

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

Applications

- Oxymeters
- Baggage Scanners
- CT Scanners
- Laser Gyros
- Spectrometers

Spectral Response



Available in single cell, multi-cell, and array configurations.

Electrical Characteristics @ 25°C

PV DEVICE #	ACTIVE AREA		R		C _J	R _{SH}	NEP	T _R
	mm ²	Dia. Inch	650nm	A/W	0V / 1kHz	+/- 10 mV	0V/650nm/1kHz	0V/650nm 50Ohm Load
MXP1039 PV-V	1.0	0.044	0.4	A/W	150	5,000	5 X 10 ⁻¹⁵	20
MXP1040 PV-V	5.1	0.100	0.4	pF	550	500	2 X 10 ⁻¹⁴	100
MXP1041 PV-V	100	0.444	0.4	MOhms	11,000	50	1 X 10 ⁻¹³	1500
MXP1000 PV-V	1.8	0.1 x 0.028	0.4	W/(Hz) ^{1/2}	275	2,500	1 X 10 ⁻¹⁴	35

PHOTOVOLTAIC

PC DEVICE #	ACTIVE AREA		R		ID			V _B	C _J			NEP	T _R		
	mm ²	Dia. Inch	650nm	PEAK	0.01V	-1.0V	-10V	10μA	1kHz			0V/650nm 1kHz	650nm/50Ohm Load		
MXP1039 PC-V	1.0	0.044	0.4	0.55	0.01	0.10	2.0	V	0 V	-1 V	-10 V	W/(Hz) ^{1/2}	0 V	-10 V	
MXP1040 PC-V	5.1	0.100	0.4	0.55	0.10	1.00	10.0	pF	25	100	85	25	5 X 10 ⁻¹⁵	5	2
MXP1041 PC-V	100	0.444	0.4	0.55	1.00	10.0	100	50	2,000	1,700	650	1 X 10 ⁻¹³	15	5	
MXP1000 PC-V	1.8	0.1 x 0.028	0.4	0.55	0.02	0.02	5.0	50	50	40	20	1 X 10 ⁻¹⁴	10	4	

PHOTOCONDUCTIVE