

MXP1045 PC/PV - UV
MXP1046 PC/PV - UV
MXP1047 PC/PV - UV

UV Enhanced Photo Detectors

Features

- Photovoltaic / Photoconductive
- Ultra High Shunt Resistance
- Ultra Low Noise
- All Detectors have Quartz Windows

Applications

- Biomedical Test Equipment and Instruments
- Chemical and Fluorescence Analysis
- Spectrometers
- UV Exposure Meters
- UV Chemical Analysis

Electrical Characteristics @ 25°C

PV

DEVICE #

	ACTIVE AREA		R	C _J	R _{SH}	NEP	T _R
	mm ²	Dia. Inch	250nm A/W	0V / 1kHz pF	+/-10 mV MOhms	250nm/1kHz W/(Hz) ^{1/2}	0V/250nm 50Ohm Load ns
MXP1045 PV-UV	1.0	0.044	0.1	50	1,000	5 X 10 ⁻¹⁴	10
MXP1046 PV-UV	5.1	0.100	0.1	250	100	2 X 10 ⁻¹³	30
MXP1047 PV-UV	100	0.444	0.1	5,000	10	5 X 10 ⁻¹³	600

PHOTOVOLTAIC

PC

DEVICE #

	ACTIVE AREA		R		ID			V _B	C _J			NEP	T _R	
	mm ²	Dia. Inch	A / W		nA			10 μA	1 kHz			10V/250nm 1kHz W/(Hz) ^{1/2}	250nm/50Ohm Load ns	
			250nm	PEAK	0.01V	-1.0V	-10V	min	0 V	-1 V	-10 V		0 V	-10 V
MXP1045 PC-UV	1.0	0.044	0.1	0.45	0.01	0.10	2.0	50	50	40	20	5 X 10 ⁻¹³	10	5
MXP1046 PC-UV	5.1	0.100	0.1	0.45	0.10	1.00	10.0	50	250	200	80	1 X 10 ⁻¹²	30	10
MXP1047 PC-UV	100	0.444	0.1	0.45	1.00	10.00	100	50	5,000	4,000	1,500	5 X 10 ⁻¹²	600	200

PHOTOCONDUCTIVE