

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