

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 _J	R _{SH}	NEP	T _R
	900nm		0V / 1kHz		0V / 1kHz	+/- 10 mV	900nm / 1kHz	0V/900nm 50Ohm Load
	mm ²	Dia. Inch	A/W	pF	MOhms	W/(Hz) ^{1/2}	ns	
MXP1048 PV-IR	1.0	0.044	0.5	150	5,000	5 X 10 ⁻¹⁵	5,000	
MXP1049 PV-IR	5.1	0.100	0.5	550	500	2 X 10 ⁻¹⁴	500	
MXP1050 PV-IR	100	0.444	0.5	11,000	50	1 X 10 ⁻¹³	50	
MXP1002 PV-IR	1.8	0.10 x .028	0.5	275	2,500	3 X 10 ⁻¹⁴	2,500	

PHOTOVOLTAIC

PC DEVICE #	ACTIVE AREA		R		ID			V _B	C _J			NEP	T _R	
	900nm		A / W		nA			10 μA	1kHz			10V/900nm 1kHz	900nm/50Ohm Load ns	
	mm ²	Dia. Inch	900nm	PEAK	0.01V	-1.0V	-10V	min	0 V	-1 V	-10 V	W/(Hz) ^{1/2}	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 ⁻¹⁴	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 ⁻¹³	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 ⁻¹³	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 ⁻¹³	2,000	50

PHOTOCONDUCTIVE