

MXP1020 - PS/Q
MXP1022 - PS/Q
MXP1023 - PS/Q
MXP1001 - PS/D
MXP1004 - PS/D

Position Sensing Photo Detectors

Features

- Low Cross Talk
- Excellent Stability
- Low Noise
- Ultra High Positioning Accuracy

Applications

- Machine Tool Alignment
- Angle Measurement
- Targeting
- Remote Optical Alignment
- Guidance Systems

Electrical Characteristics @ 25°C

MODEL

/Q - Quad
 /D - Dual

	EACH ACTIVE AREA		GAP Inch	R 850nm A / W	UNIFORM. OF R 1mm dia. SPOT +/- %	R _{SH} +/-10 mV MOhms	ID nA		V _B 10μA V	C _J 1kHz pF			NEP 10V / 850nm W/(Hz) ^{1/2}	T _R 850nm / 50Ohm Load ns	
	mm ²	Dim. Inch					-10V	-25V		min	0 V	-10 V		-25 V	-10 V
MXP1020-PS/Q	7.11	.105 x .105	0.005	0.5	2	50	20	50	50	120	15	10	5 X 10 ⁻¹³	15	10
MXP1022-PS/Q	0.26	.020 x .020	0.0005	0.5	2	1,000	2	5	50	10	3	2	5 X 10 ⁻¹⁴	15	10
MXP1023-PS/Q	1.61	.050 x .050	0.005	0.5	2	500	5	10	50	30	5	2	8 X 10 ⁻¹⁴	15	10
MXP1001-PS/D	3.22	.100 x .050	0.005	0.5	2	100	10	20	50	60	10	5	2 X 10 ⁻¹³	15	10
MXP1004-PS/D	0.70	.047 x .023	0.0008	0.5	2	500	5	10	50	15	10	5	8 X 10 ⁻¹³	15	10