



Quadrant Photodiodes: Positioning Detectors

A quadrant photodiode is a 2x2 array of individual photodiode active areas, separated by a small gap, fabricated on a single chip. This maximizes the uniformity and performance matching between the four individual elements. Quadrant photodiodes are used most frequently for position sensing of laser beams, autocollimators and other alignment applications.

In addition to the devices listed below, Pacific Silicon Sensor can design and manufacture quadrant photodiodes in differing sizes and shapes, enhanced to meet the requirements of your specific application. Our quadrant photodiodes are also available in die form or can be mounted on/in any electronic package or substrate compatible with wire bonding.

**Whatever your light sensing problem...
Make Pacific Silicon Sensor your solution!**

Part Number	Total Active Area		Gap μm	Responsivity @ 633nm A/W	Dark Current @ 10Vr nA	Capacitance @ 10Vr pF	Rise Time @ 10V, 850nm ns	Breakdown Voltage V	Data	Pkg
	Size (mm)	mm^2								
QP1.16-6	1.1 x 1.1	1.16	20	0.45	1	10	100	30		N/A
QP5.8-6-TO5	1.2 x 1.2	5.76	50	0.45	2	10	100	30		N/A
QP50-6	\varnothing 7.98	50	42	0.45	5	70	40	15	N/A	
QP50-6-18	\varnothing 7.98	50	18	0.45	5	70	40	15	N/A	
QP100-6	\varnothing 11.2	100	50	0.45	10	130	50	15	N/A	
QP50-6SD2	50mm ² quadrant detector module with sum & difference electronics. Ready to use with connector. (Sum and difference PCB can be purchased without QP50-6 detector)									N/A
QP50-6SD-DIAG	50mm ² quadrant detector module with sum & difference electronics. Provides top minus bottom and diagonal difference signals.									N/A

