

QUADRANT DETECTORS Silicon and InGaAs

To expand the line of position sensing devices, We have added several quadrant detectors to our standard product line. These are high performance devices and come in room temperature or TE-Cooled TO-Style packages. 4-channel integrated amplifier modules are also available. Other sizes and configurations are available on request.



| Type | Part number | Active Area | Operating Wavelength (nm) | Shunt Capacitance (pF) | Responsivity (A/W) | NEP (W/Hz ^{1/2}) | Element Spacing |
|------------------|----------------|-------------|---------------------------|------------------------|--------------------|----------------------------|-----------------|
| Silicon Quadrant | S - 025 - QD | 2.5mm sq | 400-1100 | 25 | 0.6 | < 10 ⁻¹⁴ | < 100 μm |
| | S - 078 - QD | 7.8mm dia. | 400-1100 | 100 | 0.6 | < 2 x 10 ⁻¹⁴ | < 200 μm |
| InGaAs Quadrant | IGA-010-QD | 1mm dia. | 1000-1700 | 40 | 0.9 min. | - | < 35 μm |
| | IGA-020-QD | 2mm dia. | 1000-1700 | 100 | 0.9 min. | - | < 100 μm |
| | IGA - 030 - QD | 3mm dia. | 1000-1700 | 200 | 0.9 min. | - | 20 μm |

Note : Crosstalk : <1%