



United Detector Technology

A Division of ILC Technology, Inc.

12525 Chadron Avenue • Hawthorne, California 90250 • (213) 978-0516

PRELIMINARY DATA SHEET

POSITION SENSING PHOTODETECTORS

PART # PIN-SPOT-4DMI

10μM GAPPED QUADRANT DETECTOR

United Detector Technology is pleased to announce the introduction of a new quadrant detector to our growing assortment of Position Sensing Photodiodes. The unique characteristic of this device is the 10 micron gap capable of achieving less than 2% crosstalk between the active elements.

APPLICATIONS

OPTICALS SOUND-TRACT SYSTEMS

REMOTE OPTICAL ALIGNMENT

COMPUTER PERIPHERALS

LASER POSITION SENSING

PHYSICAL CHARACTERISTICS

- a) Total Active Area: 1.03mm^2 approx. $.040'' \times .040''$
Each element is approximately $.020'' \times .020''$
- b) Inter-element gap between cells: 10 microns
- c) Packaged in a TO-5 can.

OPERATIONAL:

- a) Responsivity: $R \approx 74 \text{ A/W}$ @ 820nm
- b) Dark Current: $I_D < 25\text{nA}$ @ 15 Volts
- c) Capacitance: $C_J < 10\text{pf}$ @ 15 volts
- d) Breakdown Voltage: $V_B > 50\text{Volts}$ @ $10\mu\text{Amps}$
- e) Rise Time: $T_R < 20\text{ns}$ @ 15 Volts
- f) Uniformity of Response better than 1%
- g) Cross talk $< 2\%$

* All operational specifications are given at 25°C.

Price/Qty	\$42.00	1-10
	\$37.50	11-50

For further information contact:

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