



United Detector Technology

A Division of ILC Technology, Inc.

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UDT's UV-ENHANCED 35 ELEMENT SILICON PHOTODETECTOR ARRAYS

* A5V-35UV

* A5C-35UV

35 ELEMENT ARRAY:

United Detector Technology has announced the introduction of a new 35 element array to our growing assortment of photodiodes. As with all UDT arrays this device will exhibit uniform sensitivity and temperature characteristic as well as minimal crosstalk between elements. If it is apparent that a custom array is needed, contact the factory directly.

APPLICATIONS:

X-Ray Imaging

Spectrophotometry

Precision Alignment

Facsimile Instrumentation

PHYSICAL CHARACTERISTICS:

- A) 35 element array mounted on a in-line dip package
- B) Pin spacing 0.100" center to center
- C) Active size per element: 0.038" x 0.177"
- D) Center to center spacing of elements: .039"
- E) Custom array in same package can be made upto 38 elements

ELECTRICAL CHARACTERISTICS:

- A) Responsivity @ 254nm > 0.08 A/W
 @ 632.8nm > 0.42 A/W
 @ 940nm > 0.35 A/W
 - B) NEP = 6×10^{-15} W/ $\sqrt{\text{Hz}}$
 - C) Shunt resistance, R_{SH} = 5G Ω
 - D) Breakdown voltage, V_B = 15V @ 1uA
 - E) Junction capacitance, C_j < 400 pF @ 0V bias
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