



## United Detector Technology

A Division of ILC Technology, Inc.

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UDT's 76-ELEMENT SILICON PHOTODETECTOR ARRAY

\* A2V-76

### 76 ELEMENT BLUE-ENHANCED ARRAY:

United Detector Technology has announced the introduction of a new 76 element array to its growing assortment of photodiodes. This array is specifically blue enhanced, and as with all UDT arrays, 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) 76 element array mounted on a high reliability ceramic package that has thin film metallization with a brazed pin configuration.
- B) Pin spacing .100" center to center.
- C) Active size per element 0.254" x 0.011".
- D) Center to center spacing of elements .124"

### ELECTRICAL CHARACTERISTICS:

- A) Spectral response: 250nm to 1100nm  
Wavelength of maximum response: 900nm
- B) Responsivity @ 400nm = 0.20 A/W  
@ 632.8nm = 0.35 A/W  
@ 900nm = 0.45 A/W
- C) NEP =  $3 \times 10^{-14} \text{ W}/\sqrt{\text{Hz}}$
- D) Shunt Resistance @ -10mV = 100 M $\Omega$
- E) Junction Capacitance = 200pF
- F) Risetime (50 $\Omega$  load, 400nm, no bias) = 50 nsec

