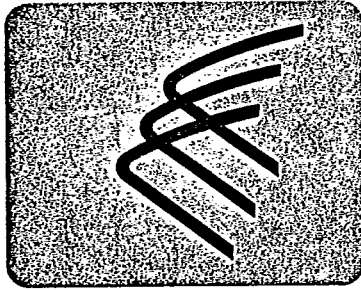


Mercury Cadmium Telluride

SPECIFICATIONS FOR STANDARD DETECTORS

Infrared Associates, Inc. 1000 Route #130, Cranbury, NJ 08512 (609) 395-7600 Telex 642282



18-21 microns

MODEL	SIZE (inches)	D* (cm Hz ^{1/2} /watt)	TIME CONSTANT (nanoseconds)
21 A	.002 to .040	$\geq 1.0 \times 10^{10}$	~ 100
21 B	.060 to .100	$\geq 5.0 \times 10^9$	~ 100
21 C	.002 to .040	$\geq 5.0 \times 10^9$	~ 50
21 D	.002 to .040	$\geq 3.0 \times 10^9$	~ 50
21 E	.060 to .100	$\geq 3.0 \times 10^9$	~ 50

These photoconductive HgCdTe detectors have peak response in the 18-21 micron region. The high signal-to-noise ratio of these devices make them ideal for applications in which liquid Helium cooled detectors were required in the past. They have found extensive use in analytical instruments, spectroscopy, research, etc.

Custom packaging and detector geometries are available in addition to our standard dewars and sizes. Low noise matched preamplifiers are available for optimum detector performance.

- ... Tolerance on sizes under .040, $\pm 10\%$ to a minimum of .0003
- ... Tolerance on sizes over .040, $\pm 5\%$
- ... All D* Values are shown D* (10 KHz, 1, 60°)
- ... Packaging options include flatpaks, side or endlooking metal dewars

The above specifications represent IRA's standard product line only. Information on custom detectors and arrays is available upon request.

