

Mercury Cadmium Telluride

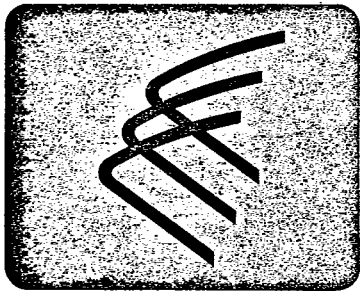
SPECIFICATIONS FOR STANDARD DETECTORS

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INFRARED ASSOCIATES INC

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16-18 microns

MODEL	SIZE (inches)	D* (cm Hz ^{1/2} /watt)	TIME CONSTANT (nanoseconds)
18 A	.002 to .040	≥ 1.5 × 10 ¹⁰	~150
18 B	.060 to .100	≥ 1.0 × 10 ¹⁰	~150
18 C	.002 to .040	≥ 1.0 × 10 ¹⁰	~100
18 D	.002 to .040	≥ 5.0 × 10 ⁹	~100
18 E	.060 to .100	≥ 5.0 × 10 ⁹	~100

These photoconductive HgCdTe detectors have peak response in the 16-18 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, ± 10% to a minimum of .0003
- ... Tolerance on sizes over .040, ± 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.

