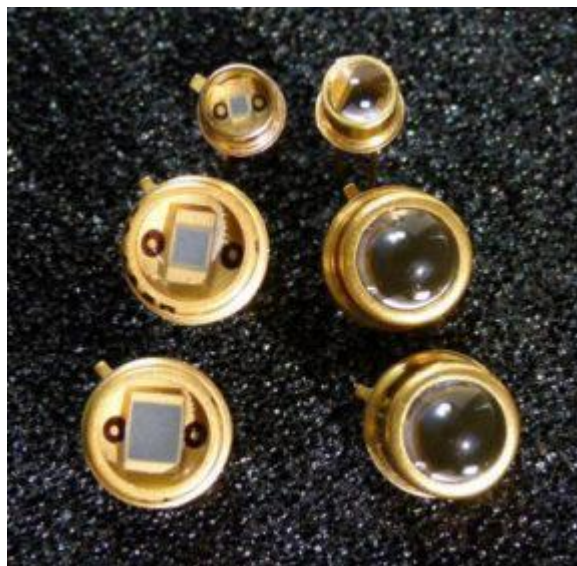


PbS Non-Cooled Photoconductive IR Detectors

Room Temperature Infrared Detectors with Enhanced Stability & Resistance to High Temperatures in the 1 – 3.3 μm Wavelength Band



Ambient Temperature:	+25°C
Detector Operating Temperature:	+25°C

Standard Specifications – Electrical

Detectors tested using 50 V/mm across the detector and a one MegOhm load resistor in series.

	Minimum	Typical	Maximum	Units
Wavelength of Max. Response	2.2	2.4		μm
D*(λ_{pk}, 630 Hz, 1 Hz)	8.0 x 10 ¹⁰	1.0 x 10 ¹¹		cm Hz ^{1/2} w ⁻¹
Element Resistance (Dark)	0.2	1.0	3.5	MegOhm
Time Constant (not typically measured)		100	400	μsec
Rated Element Temperature			+65	°C

When using the table below, remove parenthesis and insert appropriate designation for package type in the space.

Example: 3 for TO-3, 5 for TO-5, 8 for TO-8.

Model Number	Element Size (mm)	Responsivity (I _{pk} , 630) v/w		Standard Package Options
		Minimum	Typical	
A1-()	1 x 1	530,000	800,000	TO-5, TO-8
A2-()	2 x 2	270,000	400,000	TO-5, TO-8
A3-()	3 x 3	260,000	170,000	TO-5, TO-8
A6-8*	6 x 6	90,000	140,000	TO-8
A10-3*	10 x 10	50,000	75,000	TO-3
* Minimum D*(I _{pk} , 630, 1) > 7.0 x 10 ¹⁰ cm Hz ^{1/2} w ⁻¹ * ** Minimum D*(I _{pk} , 630, 1) > 6.0 x 10 ¹⁰ cm Hz ^{1/2} w ⁻¹ *				

To specify thermistor option for all TE cooled detectors, add the suffix -T or -TC (calibrated) to the model number.

Learn More About Our Model Numbers:

Part Number Designation:

Part Number Designation									
Detector Type		Active Area Size		Package Type		Cooler Type		Thermistor	
A	PbS (1-3.3 um)	1	1 x 1 mm	3	TO-3	C1	1 Stage 2 Watt	T	Uncalibrated
		2	2 x 2 mm	5	TO-5	C2	1 Stage 3 Watt	TC	Calibrated
B	PbSe (1-5.5 um)	3	3 x 3 mm	6	TO-66	C3	2 Stage 2 Watt	*	Left blank if without
		6	6 x 6 mm	7	TO-37	C4	2 Stage 3 Watt		
		10	10 x 10 mm	8	TO-8	C5	1 Stage 9 Watt		
					C6	3 Stage 3 Watt			