

PbSe Non-Cooled Photoconductive IR Detectors

Room Temperature Infrared Detectors with Fast Response & High Sensitivity in the 1 – 5.5 um 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.				
System	Minimum	Typical	Maximum	Units
Wavelength of Max. Response	3.6	3.8		µm
D*(Apk, 1050 Hz, 1 Hz)	1.2 x 10 ¹⁰	1.8 x 10 ¹⁰		cm Hz ^{1/2} w ⁻¹
Element Resistance (Dark)	0.1	0.8	3.5	MegOhm
Time Constant (not typically measured)		2	5	µsec
Rated Element Temperature			+85	°C

For square or rectangular element sizes and/or packages not listed, please contact us: (707) 620-0160, Info@irmatl.com

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} , 1050) v/w		Standard Package Options
		Minimum	Typical	
B1-()	1 x 1	22,000	44,000	TO-5, TO-8
B2-()	2 x 2	11,240	22,500	TO-5, TO-8
B3-()	3 x 3	7,400	14,800	TO-5, TO-8
B6-8*	6 x 6	3,700	7,400	TO-8
B10-3*	10 x 10	2,200	4,400	TO-3

* Minimum D*(I_{pk}, 1050, 1) ≥ 9.0 x 10⁹ cm Hz^{1/2} w⁻¹*
 ** Minimum D*(I_{pk}, 1050, 1) ≥ 6.0 x 10⁹ 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: <http://irmatl.com/part-number-designation-2/>

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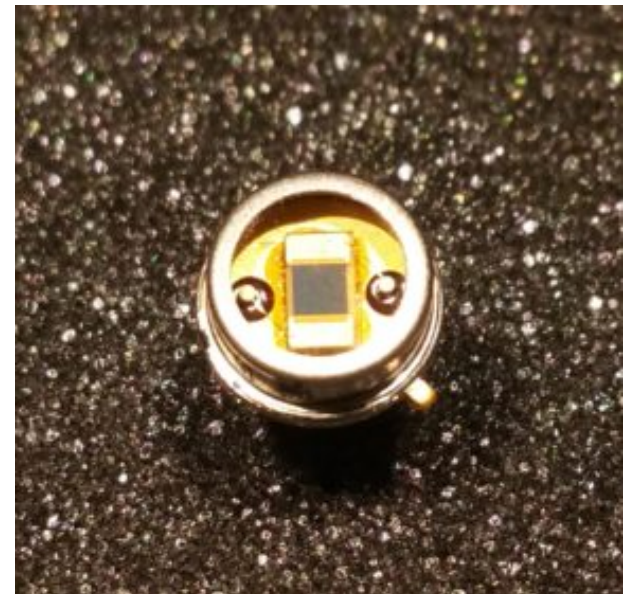
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