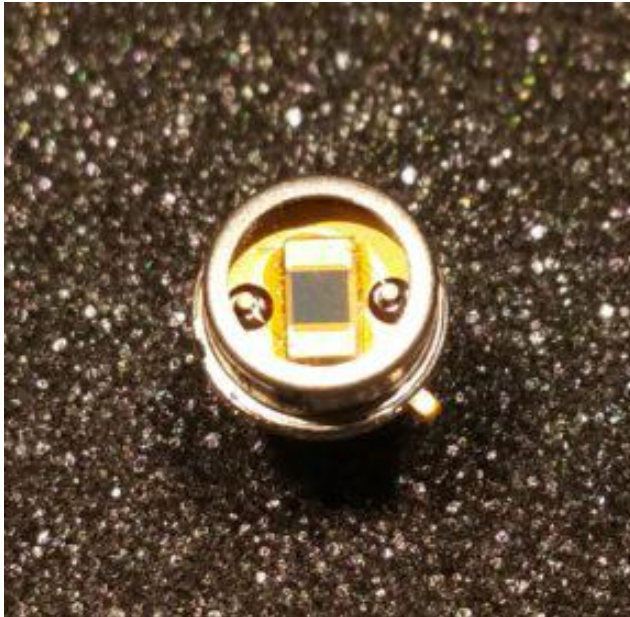


PbSe Non-Cooled Photoconductive IR Detectors

Room Temperature Infrared Detectors with Fast Response & High Sensitivity in the 1 – 5.5 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	3.6	3.8		μm
D*(λ_{pk}, 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

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 10 ⁹ cm Hz ^{1/2} w ⁻¹ * ** Minimum D*(I _{pk} , 1050, 1) >6.0 x 10 ⁹ 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.