

PRODUCT BRIEF

PbSe Photoconductive Detector PBAD -101523000

Advantages

- New Automated Chemical Processing (ACP) produces higher yield at lower cost.
- Extremely high reliability under extreme conditions.
- Long shelf life.
- Hermetically sealed package to completely eliminate humidity attack on detection area.
- Wide range of electrical characteristics available.
- Wide range of sizes available.
- Immediate delivery.
- Compact integrated filter/detector combinations.
- 100% tested.
- State of the art microelectronics fabrication capability.
- Specializing in high density arrays.

Description

Uncooled 2X2mm PbSe detector with TO-5 package

Performance Specification*

Parameter	Min	Typical	Max	Unit
Peak Spectral Wavelength	3.6	3.8		μm
D* (500K, 1000Hz, 1Hz)	8x10 ⁸	1.5x10 ⁹		cmHz ^{1/2} W ⁻¹
D* (λpk, 1000Hz, 1Hz)	8x10 ⁹	1.5x10 ¹⁰		cmHz ^{1/2} W ⁻¹
Responsivity	1.5x10 ³	6x10 ³		V/W
Dark resistance	0.2		1	MΩ
Package	TO-5			-
Cooling type	Uncooled			-
Active area	2x2			mm
Operating Temperature	-30		55	°C
Storage Temperature	-55		60	°C

*Tested under optimal bias and optimal load conditions at room temperature (+23 °C ± 2 °C).



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