PRODUCT

BRIEF

PbSe Amplified Infrared Detector PDAD -1IP02300

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.

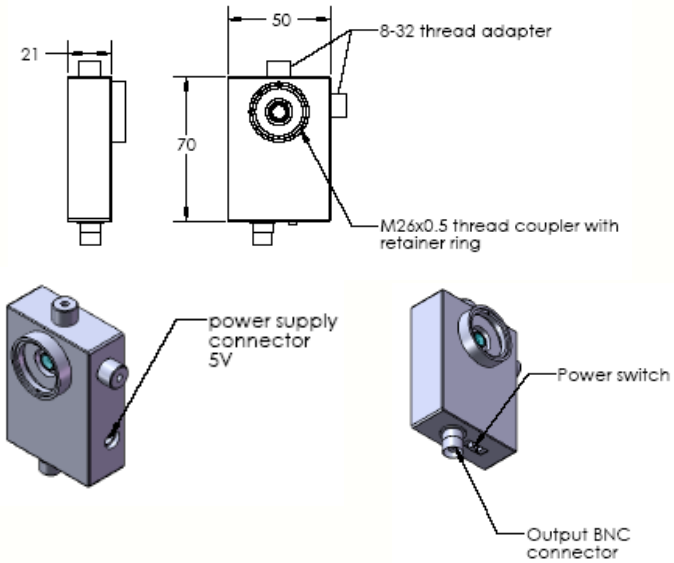
Description

PDAD series detector integrates a wide range of detector with an amplifier into compact packages. The low noise voltage amplifier is capable of driving 50 Ω loads. PDAD-1IP02300 has a 2x2mm active area lead Selenide (PbSe) detector that covers wavelength from 1 to 5μm.

Performance Specification

Parameter	Min	Typical	Max	Unit
Operation wavelength	1		5	μm
Active area	2x2 (other sizes are available)			mm
D* (λpk, 600, 1)		$2x10^9$		$cmHz^{1/2}W^{-1}$
Peak sensitivity		$5x10^3$		V/W
Bandwidth(-3dB)		175		kHz
Risetime		2		μs
Voltage Gain		100x		-
Output Voltage		±10		V
Output	BNC			-
Operation temperature	10		40	℃
Storage temperature	-25		70	℃
Package	70x50x21			mm
AC Power Supply	AC-DC Converter			-
Input Power	5			W

Mechanical Footprint Dimensions



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06-06-11