

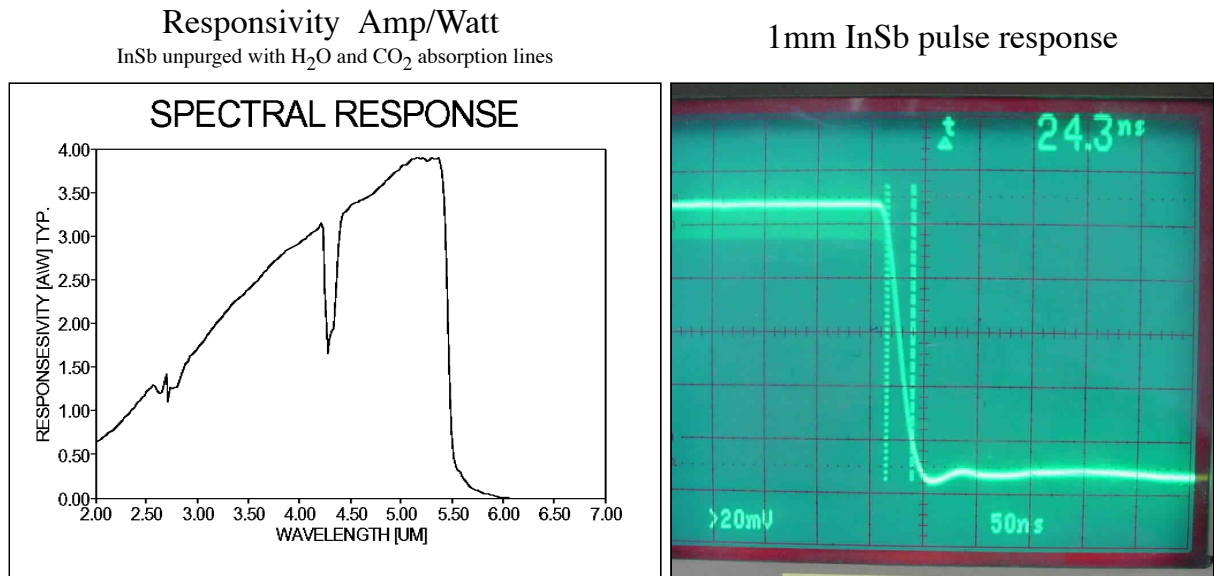
KOLMAR TECHNOLOGIES

InSb photodiode detector products

Model KISDP-1-J2 InSb photodiode/Preamplifier

Description

Model KISDP series detectors are indium antimonide (InSb) photodiodes integrated with high frequency preamplifiers [4 MHz or 50MHz depending on detector size and gain] which respond in the spectral range from visible to 5.4 um (1900 cm-1 to 6000 cm-1). These detectors are available in 2mm, 1mm, 0.5mm, 0.25mm and 0.1mm sizes and several pour filled liquid nitrogen [Dewar configurations](#). The standard configuration is a side looking Dewar with 1mm detector size, a sapphire window, DC to 15 MHz and 100Hz to 15 MHz SMA outputs -- Model KISDP -1-J2. D* is greater than 1.5 x 10¹¹ [Jones](#). The side looking Dewar is 6.75 inches tall and has a 12 hour hold time.



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Applications

The KISDP series detectors are designed for FTIR spectroscopy applications [time resolved spectroscopy -- TRS] and other applications requiring fast rise times, wide bandwidth, high detectivity, and linear response with power.

- FTIR
- STEP-SCAN FTIR
- LASER SYSTEMS
- Fast FTIR
- TRS
- CHEMICAL GAS DETECTION -- CO₂, CH₄...

Performance Specifications

MODEL KISDP-X-X SERIES

Size(mmxmm)	2.0, 1.0, 0.5, 0.25, 0.1
Quantum Efficiency	>75%
Wavelength cutoff	5.4 um
Bandwidth [1mm size]	DC to 15MHz 100Hz to 15MHz
FOV	60 degrees full angle
D*(peak,10kHz,60,1)	1.5 X 10 ¹¹ Jones nom.
Responsivity (output)	32,000 V/Watt
Power	+12V,-12V or +15V,-15V