

Room-temperature, Low-noise Amplified MCT Detector

The Amplified MCT Detector is a fully-integrated receiver with embedded detector, low-noise amplifier, and temperature controller all in one compact package.

The AC-coupled configuration makes this ideal for use with pulsed lasers. You can get 245 °K performance without external cooling.



- 2 stage TEC cooled detector to 245 °K
- Room Temperature Operation
- Wide Field of View, 78 degrees
- Photoconductive configuration

Specifications

Detector Material	HgCdTe
Spectral Response	4–12 μm
D*	$>2.5 \text{ E}^{+9} \text{ cm Hz}^{1/2}/\text{W}$
Active Detector Area	1 mm \times 1 mm
Fast Response	$<3 \text{ ns}$ rise time
RF Output	SMA connector
Responsivity	$>2,500 \text{ V/W}$
Power Supplies	+15VDC, +5VDC
Power Consumption	$< 3 \text{ Watts}$
Dimensions	76 x 44.5 x 48 mm