



AMPLIFIED MCT DETECTOR

ROOM TEMPERATURE, LOW-NOISE

The Amplified MCT Detector is a natural fit with DRS Daylight's pulsed mid-IR lasers and gives you 245° K performance and sub-3 ns rise time without external cooling. It packs a fully integrated receiver with embedded IR detector, low-noise amplifier, and temperature controller into one compact package.

HIGHLIGHTS

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

APPLICATIONS

- Standoff detection
- Remote sensing
- Environmental monitoring
- Biomedical diagnostics
- Laser source monitoring

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 x 1 mm
Fast Response	$< 3 \text{ ns}$ rise time
RF Output	SMA Connector
Responsivity	$>2,500 \text{ V/W}$
Power Supplies	+15 VDC, +5 VDC
Power Consumption	$< 3 \text{ Watts}$
Dimensions	7.6 x 4.4 x 4.8 cm

COMPLIES WITH 21 CFR 1040.10 AND 1040.11 EXCEPT FOR DEVIATIONS PURSUANT TO LASER
NOTICE NO. 50, DATED JUNE 24, 2007. COMPLIES WITH IEC 60825-01

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