



# 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 $\mu\text{m}$
$D^*$	$>2.5 \text{ E}^{+9} \text{ cm Hz}^{1/2}/\text{W}$
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

The information in this data sheet is to the best of our knowledge, accurate as of the date of issue. Leonardo DRS reserves the right to change this information without notice. Nothing herein shall be deemed to create any warranty, expressed or implied. Copyright © Leonardo DRS 2018 All Rights Reserved.

DRS Daylight Solutions  
15378 Avenue of Science, Suite 200  
San Diego, CA 92128  
Tel. +1 858 432 7500



REV 1-2018

daylightsolutions.com