Uncooled Infrared Detector

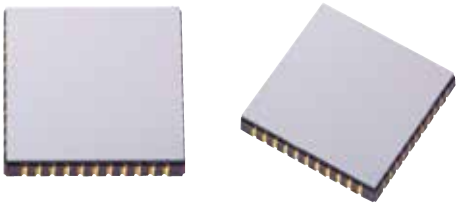
LWIR 384 x 288 12㎛ DB384-12C-A

Overview

DB384-12C-A is the high performance 384 x 288, 12㎛ micro-bolometer designed for industrial-commercial thermal imagers. Our higher performance uncooled infrared detector helps infrared camera manufacturers to lead the market in thermography, surveillance & security, car night vision and many other commercial markets.

Description

- DB384-12C-A is an uncooled infrared detector with a reliable, small and lightweight, low input power focal plane array.



Ceramic Package

Main Features

- TECless operation
- Power supply : 5 V for analog and digital
- Output dynamic range : 1 V to 4 V
- Image flip/mirror capability
- 44-leadless ceramic vacuum package
- On-chip temperature sensor
- Typical responsivity : 10 mV/K
- User defined windowing capability

Applications

- Security-Surveillance
- Night Vision
- Marine Navigation
- Next Generation Rifle
- Health and Medical

Images from the 2D IR detector

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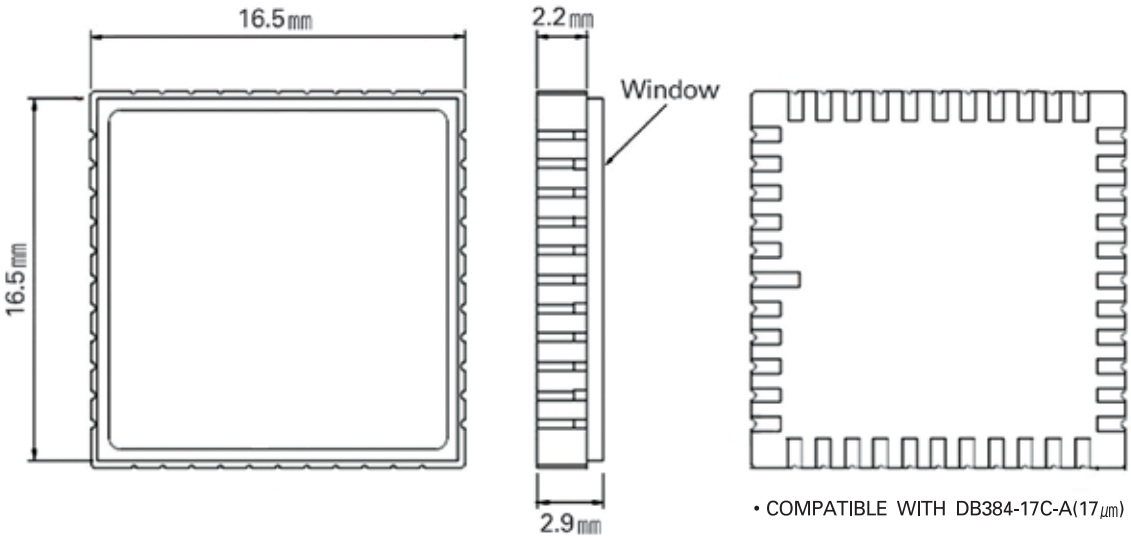
Specifications

Performance	
Detector type	Microbolometer (uncooled)
Array format	384 x 288
Pixel pitch	12 ㎛
NETD	≤ 50mK or ≤ 55mK @ F/1, 300K, 30㎐
Operability	≥ 99 %
Frame rate	Max 60㎐
Video output	1 ch
Thermal time constant	≤ 15 ㎳
Operating temperature	-40 ℃ ~ 85 ℃
Features	
Wavelength band	LWIR
Spectral range	8 ~ 14 ㎛
Dimensions	16.5(W) x 16.5(H) x 2.9(D) ㎣
Weight	≤ 3g
Windowing	Windowing capability

DB384-12C-A Dimensions



• COMPATIBLE WITH DB384-17C-A(17㎛)