

MICROBOLOMETER

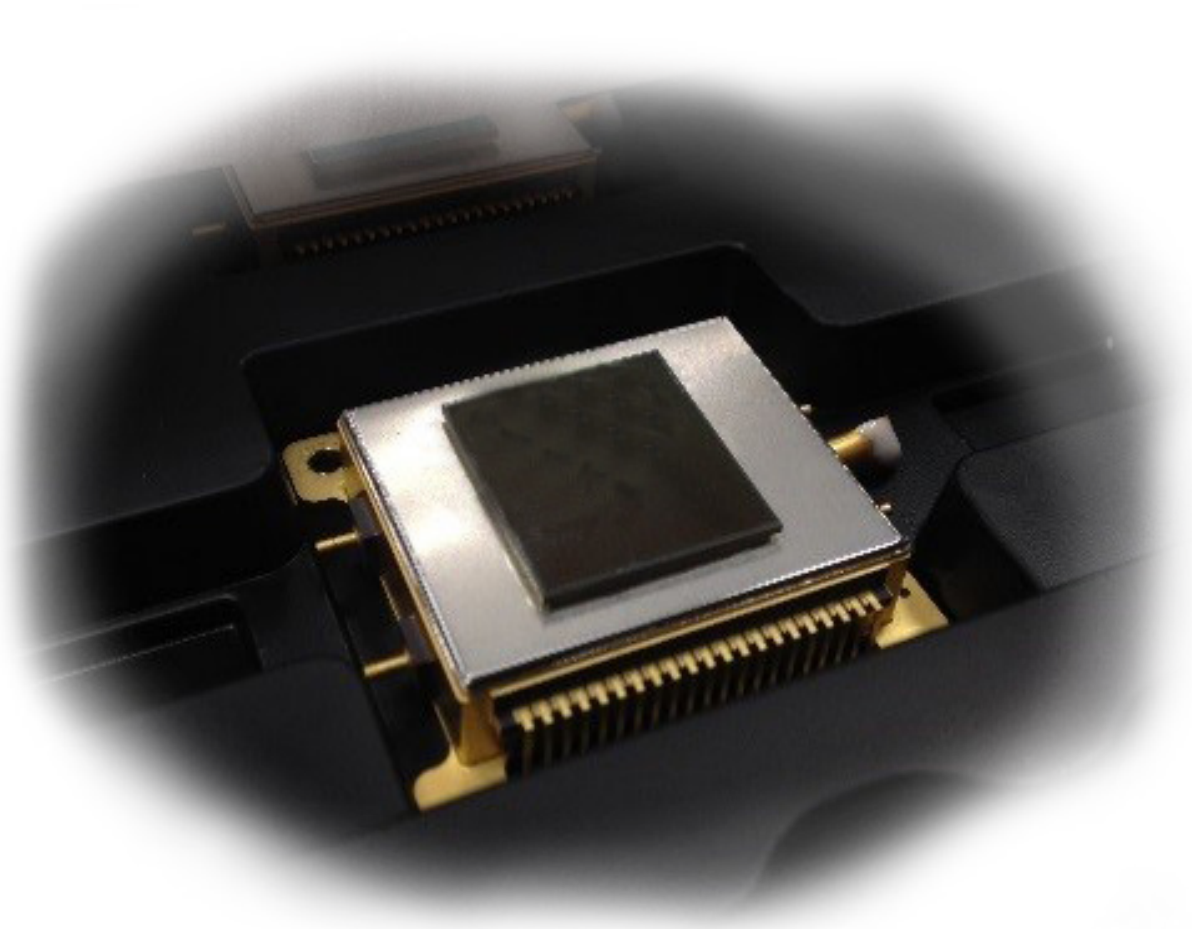
TYPE UNCOOLED DETECTORS

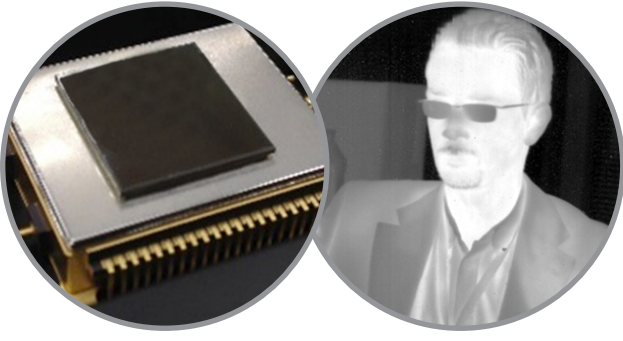
LWIR (8 μ m - 12 μ m) SPECTRAL RESPONSE

HIGH RESPONSIVITY

APPLICABLE FOR WIDE RANGE OF FRAME RATES

LOW POWER CONSUMPTION





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TYPE UNCOOLED DETECTORS

Microbolometer type uncooled detectors are used to create a thermal image by transferring infrared energy to visible pattern. These detectors, which are manufactured using MEMS technology are low cost detectors, since they do not require cooling.

ASELSAN has developed comprehensive design capabilities and is in the process of building a dedicated in-house production infrastructure for MEMS based uncooled IR microbolometer detectors.

Main Features

- 640x480 array format 17 μ m pitch size
- 384x288 array format 25 μ m pitch size
- LWIR (8 μ m - 12 μ m) Spectral Response
- High Responsivity
- Applicable for wide range of frame rates
- Low power consumption
- High pixel array operability
- Ceramic/metal vacuum packaging options
- Military grade
- Compact Size

