

Product Overview

KAF-09000: Full Frame CCD Image Sensor, 9.3 MP

For complete documentation, see the [data sheet](#)

Product Description

Combining high resolution with outstanding sensitivity, the KAF-09000 image sensor has been specifically designed to meet the needs of next-generation low cost digital radiography and scientific imaging systems. The high sensitivity available from 12-micron square pixels combine with a low noise architecture to allow system designers to improve overall image quality, or to relax system tolerances to achieve lower cost. The excellent uniformity of the KAF-09000 image sensor improves overall image integrity by simplifying image corrections, while integrated anti-blooming protection prevents image bleed from over-exposure in bright areas of the image. To simplify device integration, the KAF-09000 image sensor uses the same pin-out and package as the KAF-16801 image sensor.

The sensor utilizes the Transparent Gate Electrode to improve sensitivity compared to the use of a standard front side illuminated polysilicon electrode.

Features

- Transparent Gate Electrode for high sensitivity
- Large Pixel Size
- Large Image Area
- High Quantum Efficiency
- Low Noise Architecture
- Broad Dynamic Range

Applications

- Medical
- Scientific

Part Electrical Specifications

Product	Compliance	Status	Type	Megapixels	Frame Rate (fps)	Optical Format	Shutter Type	Pixel Size (μm)	Color	Package Type
KAF-09000-ABA-DD-AE	Pb-free Halide free	Active	Full Frame CCD	9.3	0.4	645 1.3x		12 x 12	Mono	CDIP-34
KAF-09000-ABA-DD-BA	Pb-free Halide free	Active	Full Frame CCD	9.3	0.4	645 1.3x		12 x 12	Mono	CDIP-34
KAF-09000-ABA-DP-AE	Pb-free Halide free	Active	Full Frame CCD	9.3	0.4	645 1.3x		12 x 12	Mono	CDIP-34
KAF-09000-ABA-DP-BA	Pb-free Halide free	Active	Full Frame CCD	9.3	0.4	645 1.3x		12 x 12	Mono	CDIP-34

For more information please contact your local sales support at www.onsemi.com

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