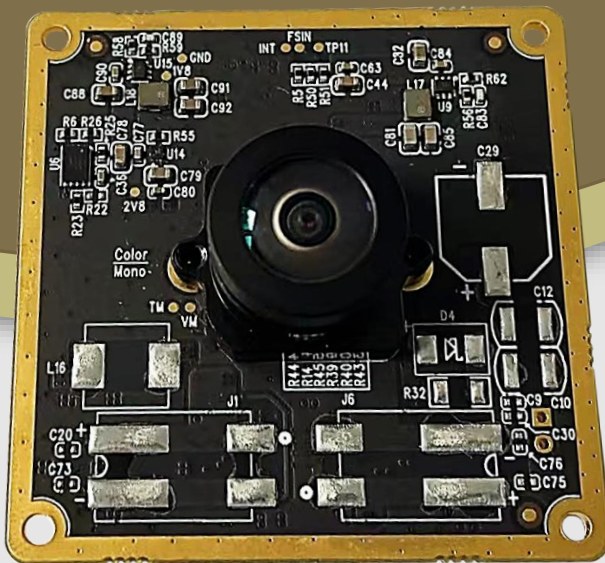




**LEOPARD**  
IMAGING

# LI-OX05B1S-MIPI-137H



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## INTRODUCTION

The LI-OX05B1S-MIPI-137H is a MIPI CSI-2 camera with OmniVision 1/2.5" RGB-IR CMOS 5MP global shutter image sensor OX05B1S. This camera outputs 2592 x 1944 RAW data.

## SPECIFICATIONS

|                    |                                                        |
|--------------------|--------------------------------------------------------|
| Sensor             | OmniVision 1/2.5" RGB-IR CMOS 5MP Image Sensor OX05B1S |
| Optical Format     | 1/2.5"                                                 |
| Resolution         | 2592 (H) x 1944 (V) (active pixels)                    |
| Pixel Size         | 2.2 x 2.2 $\mu$ m                                      |
| Shutter            | Global shutter                                         |
| Output Format      | RAW RGB-IR                                             |
| Maximum Frame Rate | 60 fps @ 1944p                                         |
| ISP                | Not included                                           |
| Color / Mono       | RGB-IR                                                 |
| Interface          | 4-lane MIPI CSI-2                                      |
| Power Consumption  | Approximate 100 mA @ 3.3 VDC (2592 x 1944 @ 30 fps)    |
| Operating Temp     | -20°C ~ +60°C                                          |
| Storage Temp       | -20°C ~ +60°C                                          |
| Weight             | ~ 15 g                                                 |
| Part#              | LI-OX05B1S-MIPI-137H                                   |

## APPLICATIONS

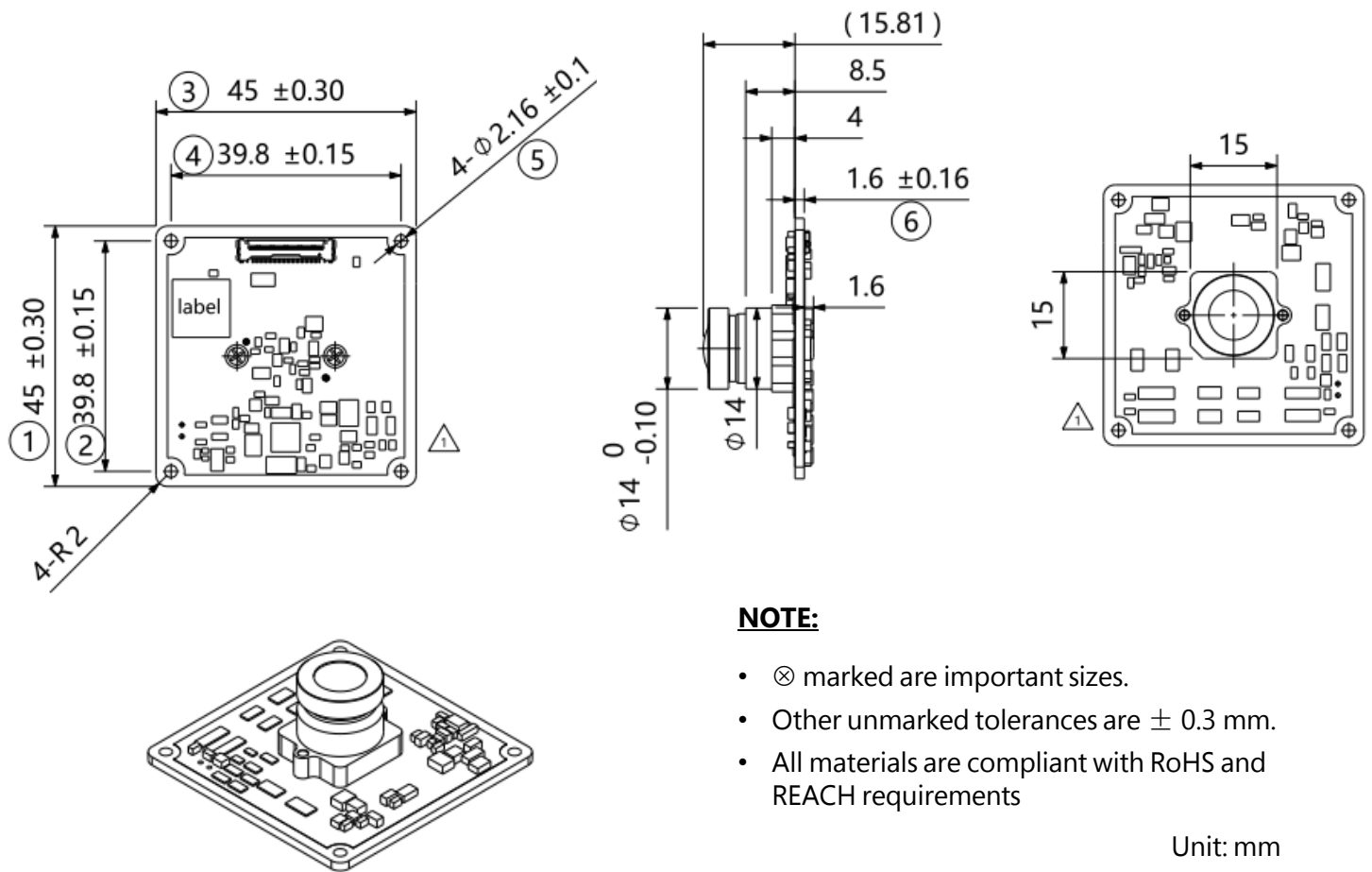
- Automotive
  - Autonomous Driving
  - Driver Monitoring System
  - Occupant Monitoring System
  - In-Cabin Monitoring System

## LENS SPECIFICATIONS

|                       |                            |
|-----------------------|----------------------------|
| Focal Length          | 2.666 mm                   |
| Aperture, F/#         | 2.4                        |
| Field of View (FOV)   | 137° horizontal            |
| Optical Distortion    | -87.08% (F-tan $\theta$ )  |
| Relative Illumination | 43.99%                     |
| IR Filter             | Visible + 940 nm IR filter |
| Lens Mount            | M12 x P0.5                 |

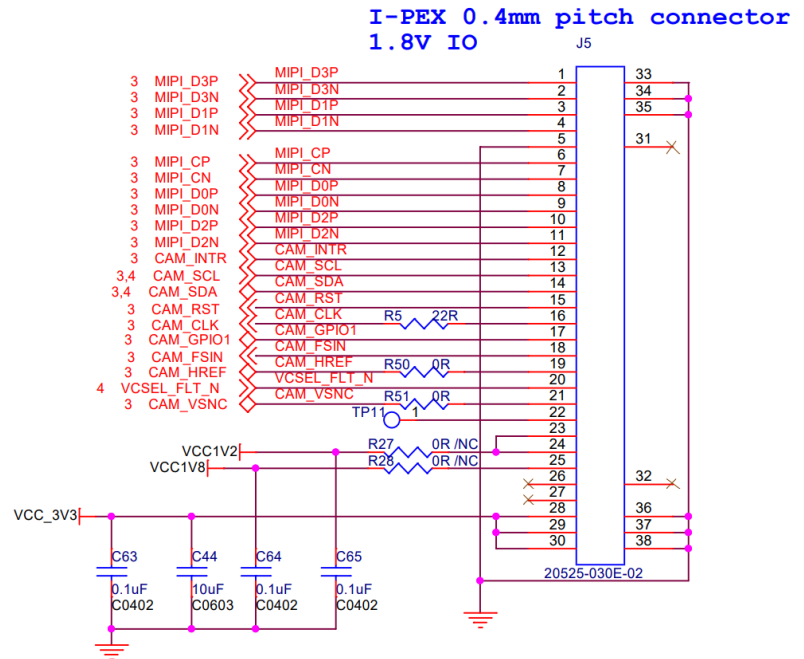


## DIMENSIONS



## INTERFACE J5

- Connector Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: LI-FAW-1233
- Sensor I2C Address: 0x6C (8-bit)
- External Power Supply: 3.3V
- 2.8V (analog), 1.8V and 1.2V are generated from board



- REVISION HISTORY

| Revision | Description    | Release Date |
|----------|----------------|--------------|
| 1.0      | First release. | 15 Jan 2024  |

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