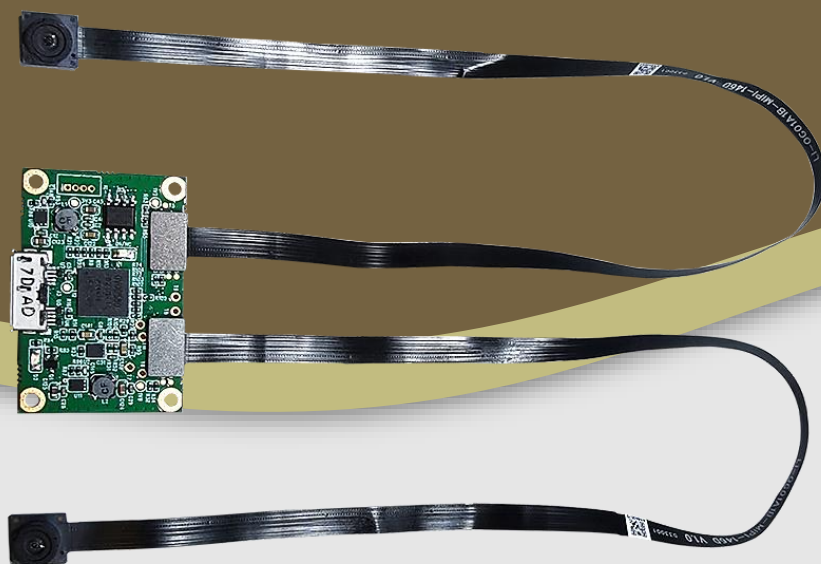




LI-OV580-OG01A1BST



Address:

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USA



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+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

TECHNICAL FEATURES

- USB 3.0 Super Speed support
- USB + 5 VDC powered device
- Includes 1 x LI-OV580-ST-AXT board + 2 x LI-OG01A1B-MIPI-146D camera modules
- RAW output without compression
- UVC compliant
- USB 2.0 backwards compatible
- Allows customization
- Sensor: OMNIVISION b&w CMOS 1.3MP Image Sensor OG01A1B
- Part#: **LI-OV580-OG01A1BST**

SDK SUPPORTED

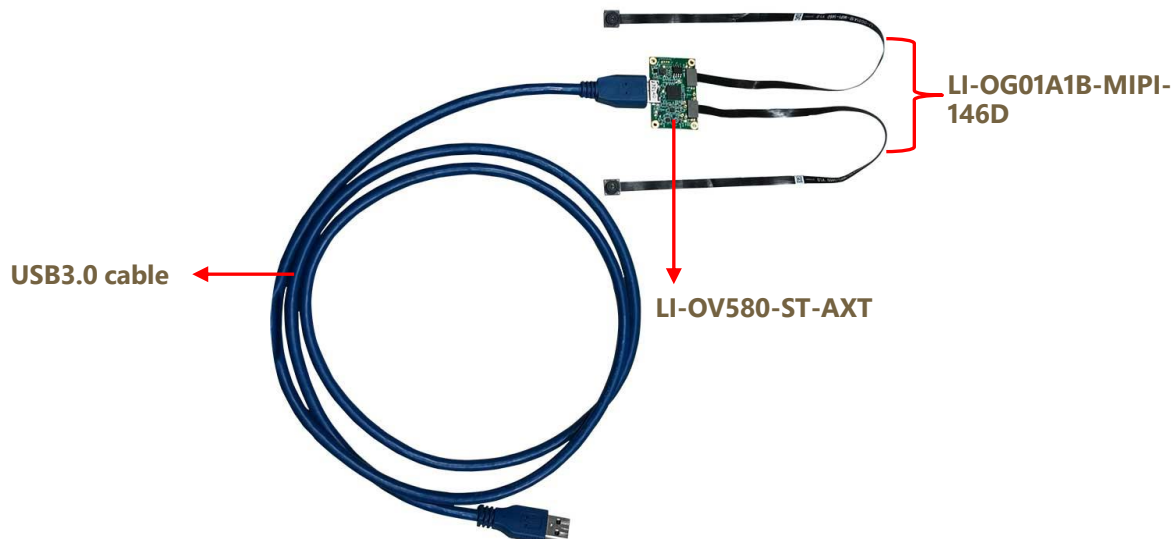
- Capture & Display

LENS SPECIFICATIONS

Focusing Range	10 cm ~ Infinity
Focal Length	1.28 mm $\pm$ 5%
Aperture, F/#	2.3 $\pm$ 5%
IR Filter	No
Field of View (FOV)	146° diagonal
	119° horizontal
	93° vertical
TV Distortion	< -22.9%

BOM

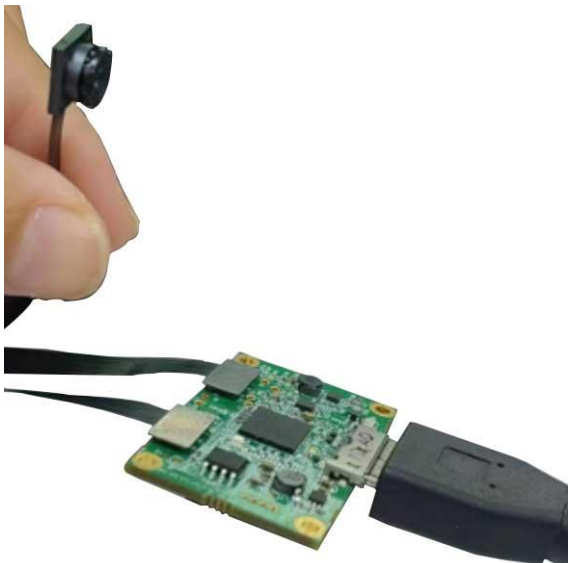
#	Items	QTY
1	LI-OV580-ST-AXT V1.2	1
2	LI-OG01A1B-MIPI-146D V1.0	2
3	USB 3.0 cable	1



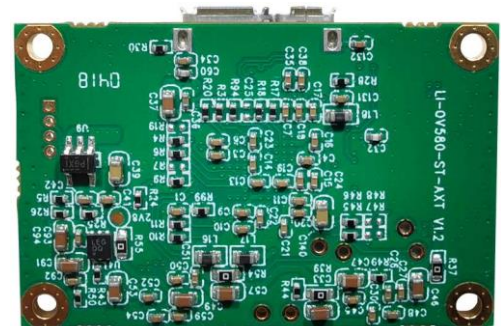
KEY SPECIFICATIONS

General Behavior	
Video Resolution @ Frame Rate	640 x 480 @ 30, 60, 120 or 240 fps
Interface (Optical)	
IR Filter	No
Sensor	OMNIVISION b&w CMOS 1.3MP Image Sensor OG01A1B
Optical Format	1/5"
Resolution	1280 (H) x 1024 (V) (active pixels)
Color / Mono	Monochrome
Pixel Size	2.2 x 2.2 μm
Interface (Electrical)	
Interface	USB 3.0
Supply Voltage	USB 3.0 + 5 VDC power source
Power Consumption	Approximately 162 mA @ 5 VDC (640 x 480 @ 60 fps)
Interface (Mechanical)	
Sizes	LI-OV580-ST-AXT: 40.4 (L) x 26.0 (W) mm LI-OG01A1B-MIPI-146D: 307.25(L) x 8.50 (W) mm
Weight	~ 7.6 g (1 x LI-OV580-ST-AXT + 2 x LI-OG01A1B-MIPI-146D)

Capture Direction



LI-OV580-ST-AXT



INTERFACES (To CAM)

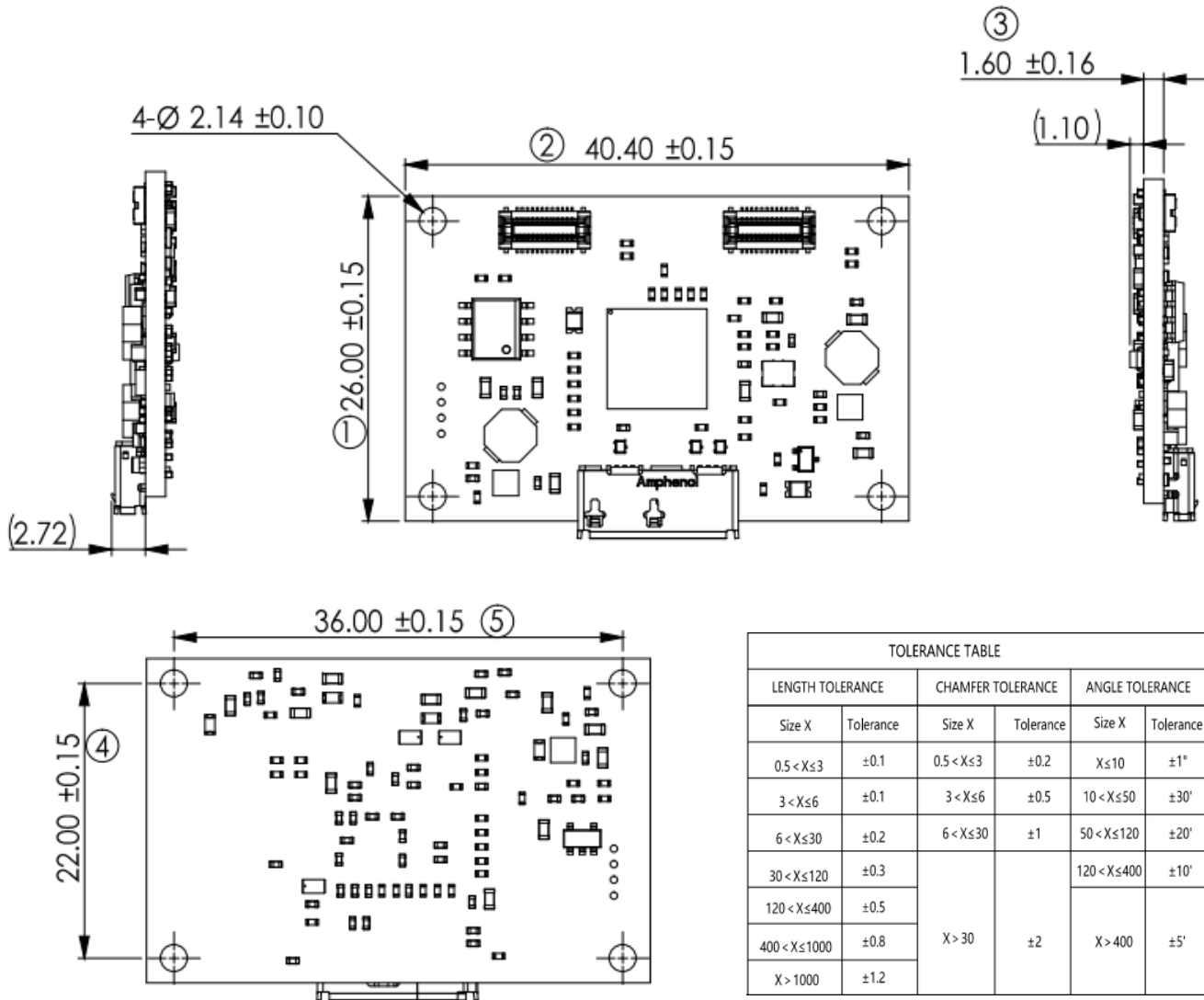
Interface J6 & J2

- Part#: AXT524124
- Number of Positions: 24
- Number of Rows: 2
- Pitch: 0.40 mm



LI-OV580-ST-AXT

DIMENSIONS



NOTE:

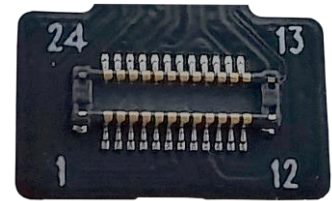
- Other unmarked tolerances refer to the Tolerance table.
- All materials are compliant with RoHS & Reach requirements.
- ⊗ marked are important sizes.

Unit: mm

LI-OG01A1B-MIPI-146D

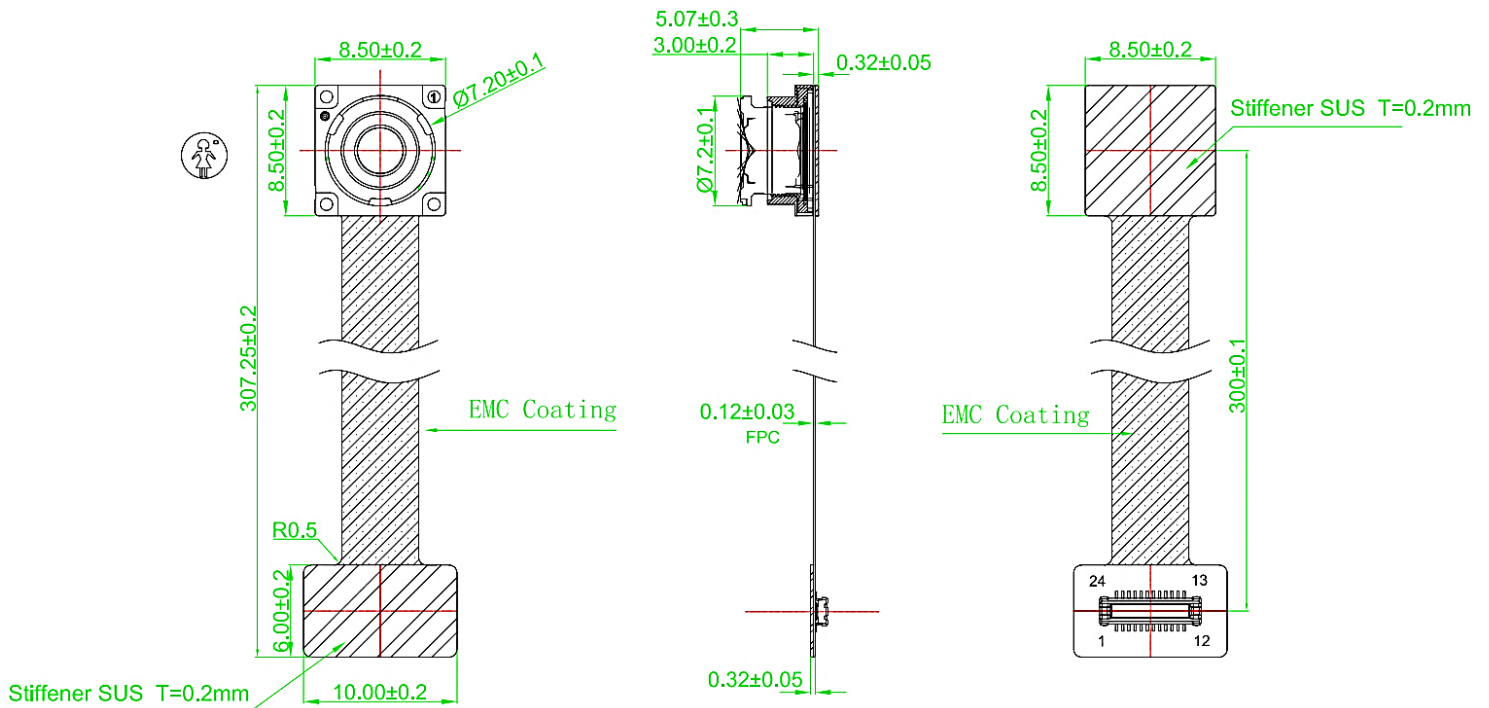


Camera



Connector (To Board)

MECHANIC DIAGRAM



NOTE:

- Basic tolerance: ± 0.1 mm
- Label with "": important dimension
- Image direction register uses default settings

Unit: mm

No.	Item	QTY	Description
1	FPC	1	LI-OG01A1B-MIPI-146D V1.0
2	Sensor	1	OG01A1B
3	Connector	1	AXT624124

• REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	14 Sep 2023

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