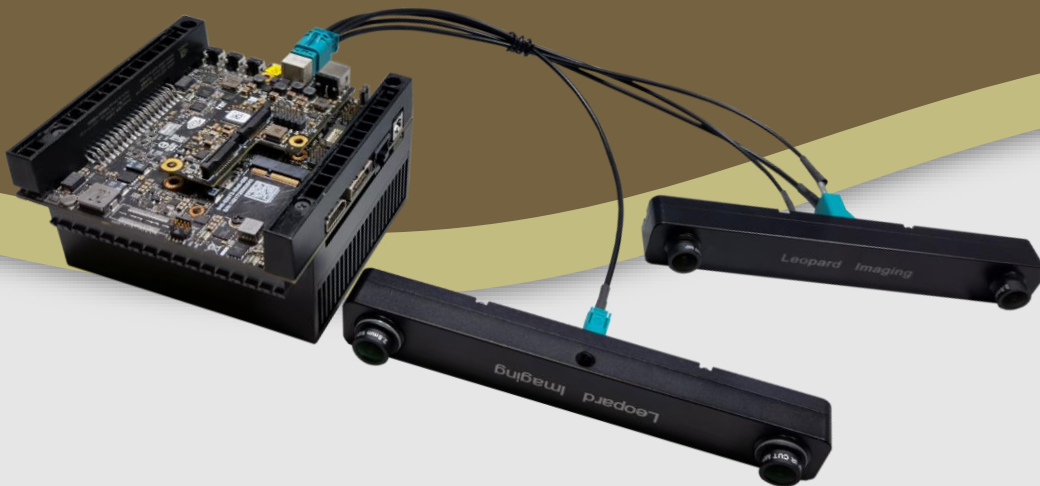




LI-XAVIER-KIT-HAWK-D



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Sales:

sales@leopardimaging.com

Support:

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KEY FEATURES

- Compatible with Nvidia® Jetson AGX Xavier™ Developer Kit
- Adapter board: E3653-A03
- Sensor: ON Semiconductor CMOS image sensor AR0234CS
- Resolution: 1920 (H) x 1200 (V)
- Color camera
- Connector: FAKRA connector FAKRA Z TYPE
- Provide customization services
- Part#: LI-XAVIER-KIT-HAWK-D

APPLICATIONS

- Bar Code Scanner
- 3D Scanning
- Positional Tracking
- Iris Scanning
- Machine Vision
- Augmented Reality
- Virtual Reality
- Biometrics
- Gesture Recognition



LENS SPECIFICATIONS

Focal Length	2.8 mm
Aperture, F/#	2.0
Field of View (FOV)	147.5° diagonal
	121.5° horizontal
	73.5° vertical
Optical Distortion	< -65.3%
Relative Illumination	> 30.0%
IR Filter	650 nm IR cut filter
Lens Mount	Active Alignment (AA)

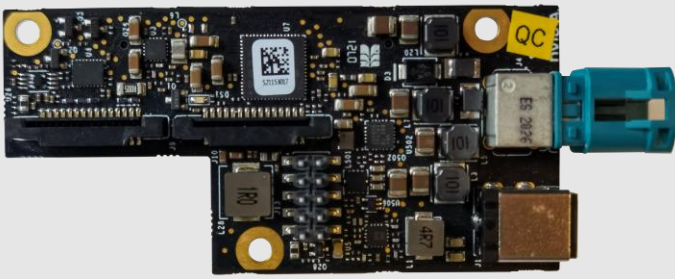
BOM

#	Items	QTY
1	E3653-A03	1
2	LI-AR0234CS-STEREO-GMSL2	2

NOTE:

Nvidia® Jetson AGX Xavier™ Developer Kit is **NOT** included.

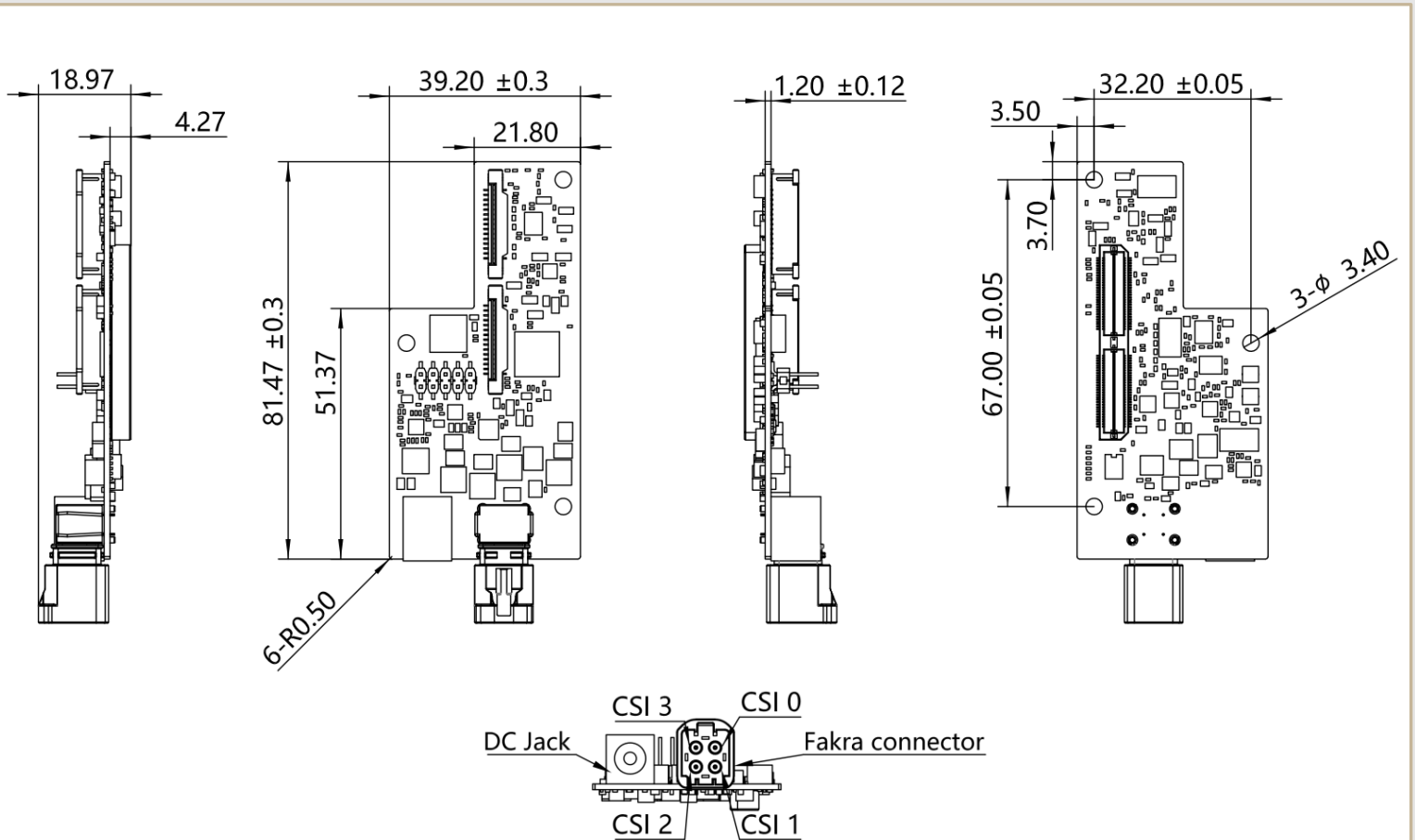
E3653-A03



TECHNICAL FEATURES

- Compatible with NVIDIA Jetson AGX Xavier, Xavier NX and NANO Developer Kit
- Support 4 GMSL2 cameras
- Deserializer: Maxim MAX96712

DIMENSIONS



Note: Tolerance for others unmarked is ± 0.3 mm.

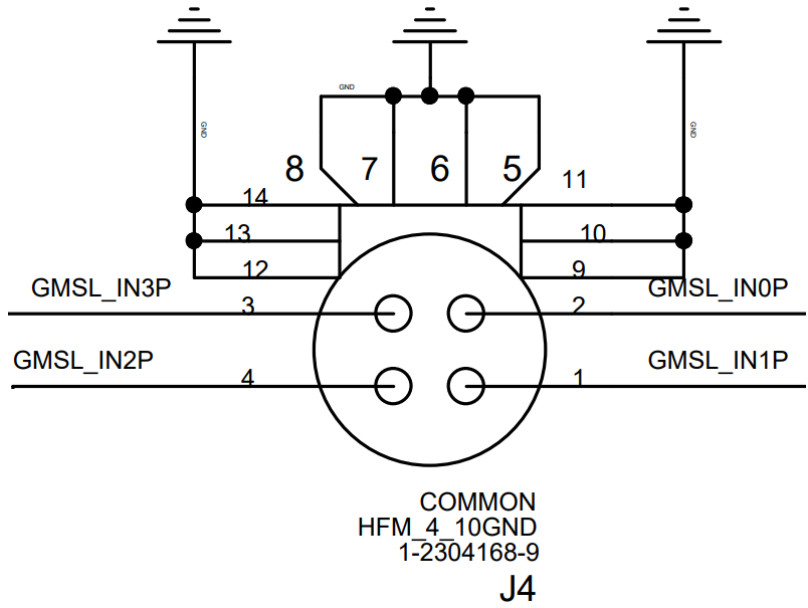
Unit: mm

E3653-A03

INTERFACES

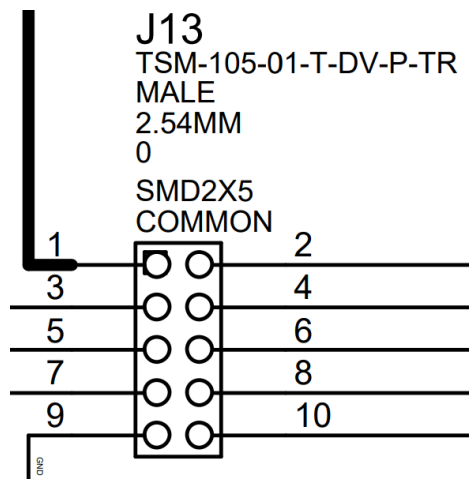
Interface J4 (FAKRA)

- Part#: 1-2304168-9
- Number of positions: 4



INTERFACE J13 (GPIO HEADER)

- Part#: TSM-105-01-T-DV-P-TR
- Number of positions: 10

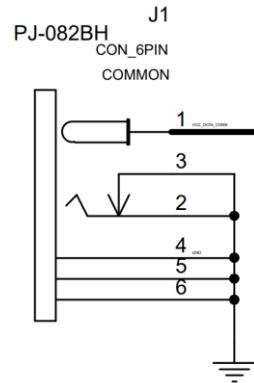


E3653-A03

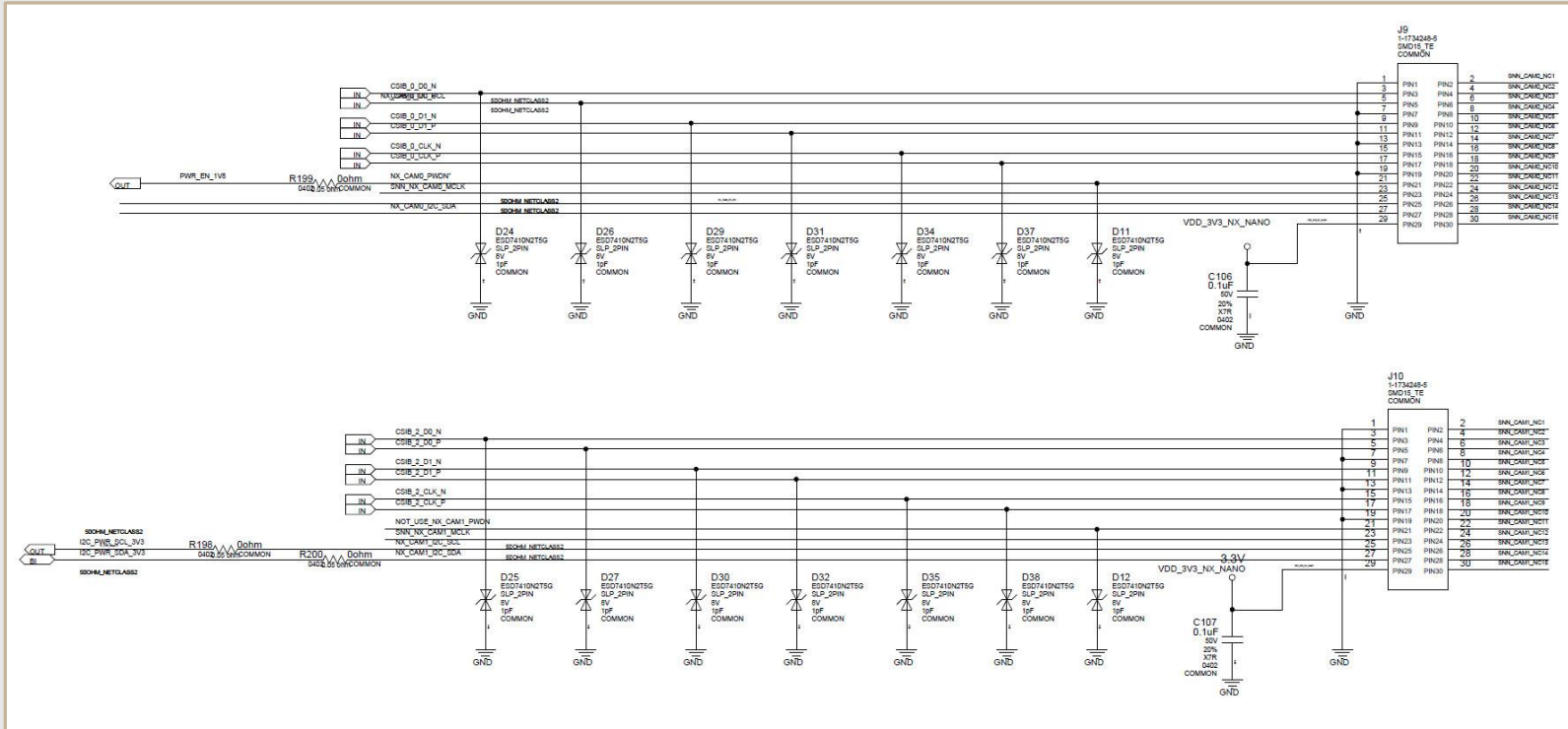
Interfaces

Interface J1 (External 19V)

- Part#: PJ-082BH
- Number of positions: 2
- Connector type: Jack
- Inner diameter (mm): 2.5
- Outer diameter (mm): 6.5



Interface J9 and J10 (MIPI Signal Transmitting Interface)

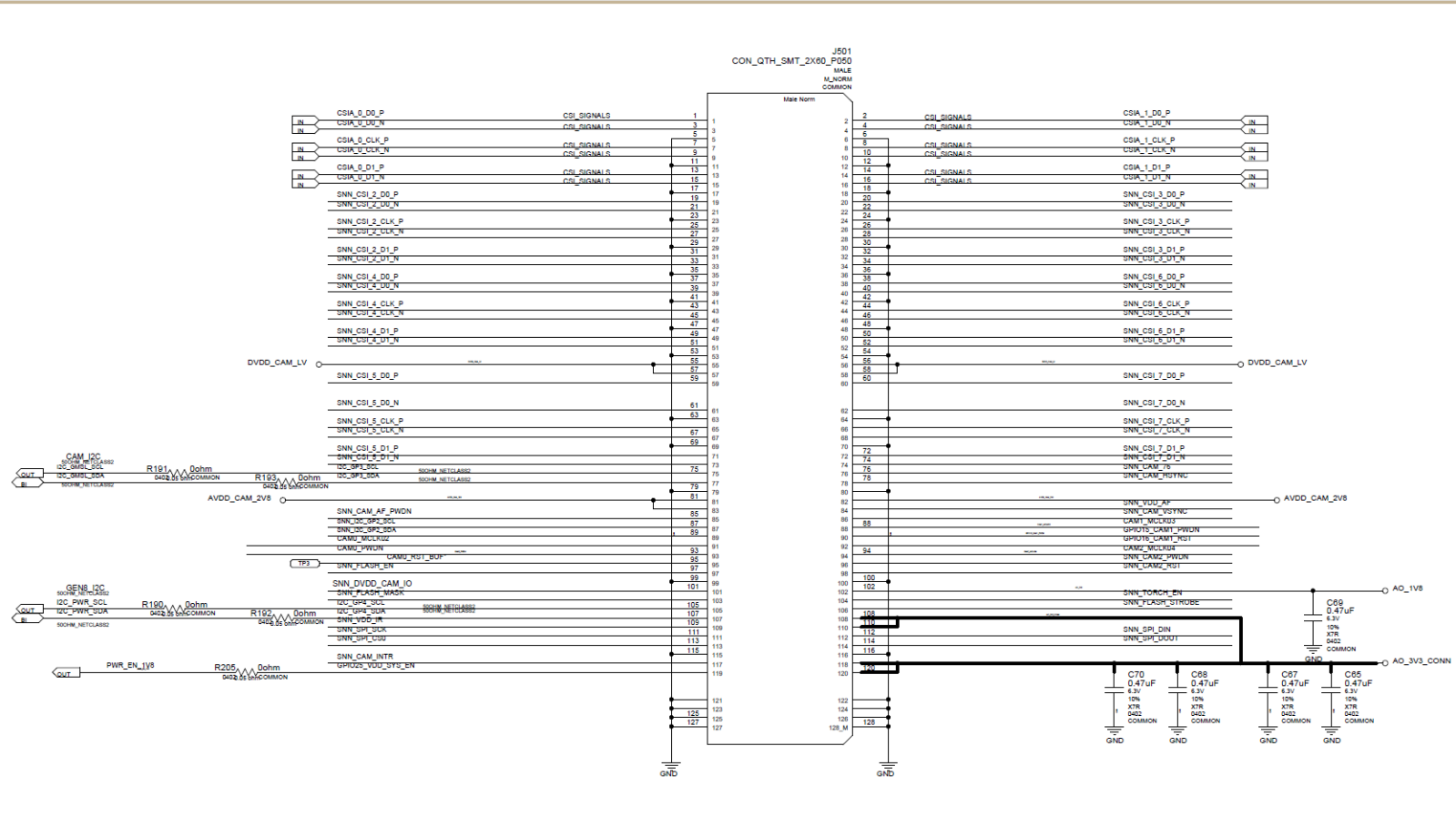


- J9 / J10 Part#: 1-1734248-5
- Number of positions on J9 / J10: 30
- J9 / J10 can connect to Jetson Xavier NX / Jetson NANO Developer Kit
- J9 and J10 could not be used with J501 simultaneously

E3653-A03

INTERFACES

Interface J501 (To Xavier)



- Part#: QTH-060-01-H-D-A
- Number of positions: 128
- J501 can connect to Jetson AGX Xavier Developer Kit
- J501 could not be used with J9 and J10 simultaneously

LI-AR0234CS-STEREO-GMSL2

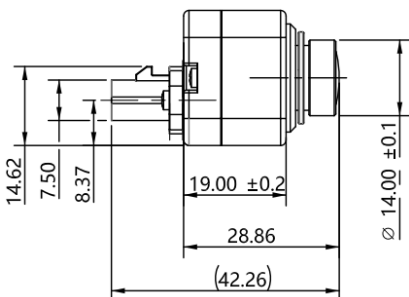
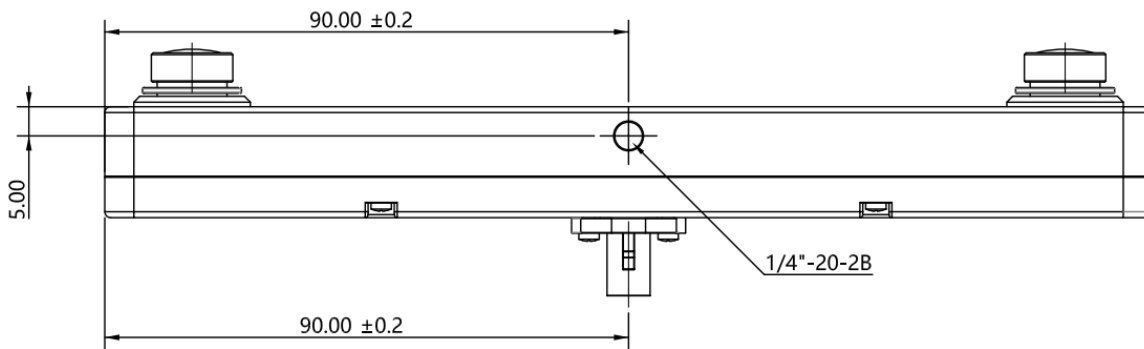
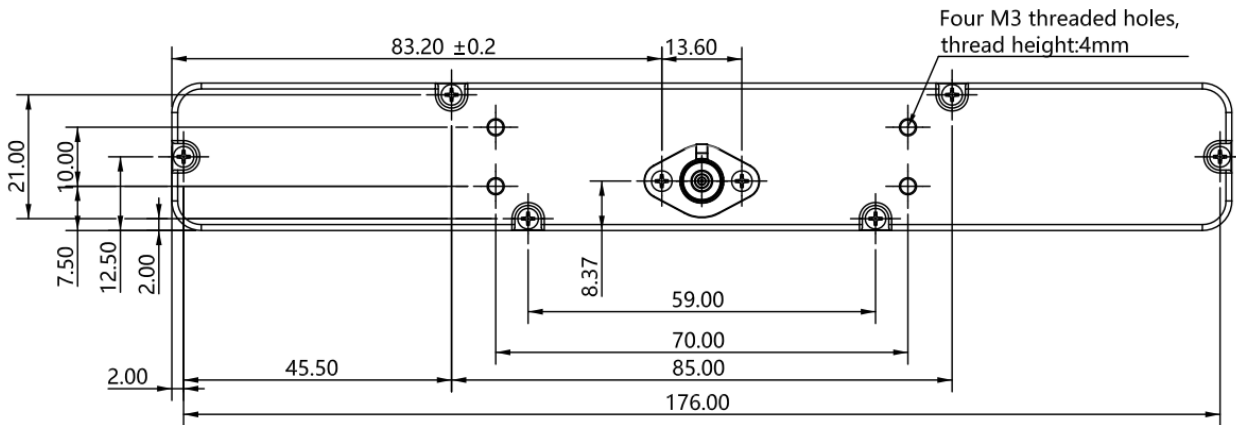
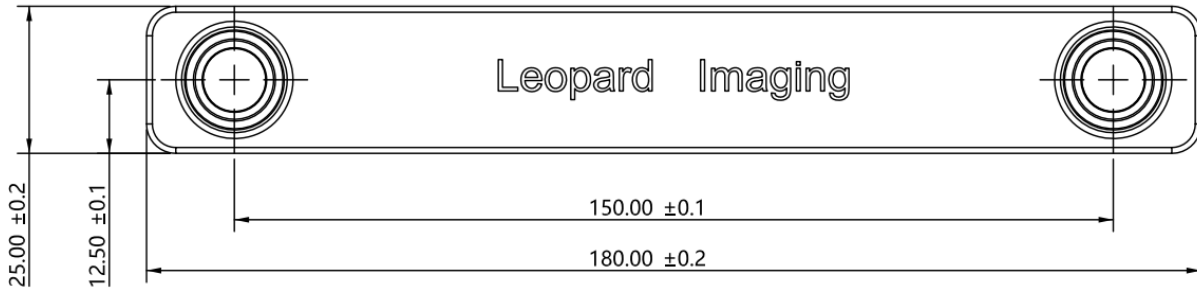


CAMERA SPECIFICATIONS

Sensor	ON Semiconductor CMOS Image Sensor AR0234CS
Optical Format	1/2.6"
QTY of Sensor	2
Resolution	1920 (H) x 1200 (V)
Pixel Size	3.0 x 3.0 μm
Baseline	150 \pm 0.1 mm
Output Format	10-bit RAW data
Frame Rate	60 fps @ 1920 \times 1200
Shutter	Global shutter
Serializer	Maxim MAX9295D
Color / Mono	Color sensor
FAKRA Connector	FAKRA Z TYPE
Power Supply Range	9 ~ 19 VDC
Power Consumption	90 mA @ 12 VDC
Weight	~ 142 g
Part#	LI-AR0234CS-STEREO-GMSL2

LI-AR0234CS-STEREO-GMSL2

DIMENSIONS



TOLERANCE TABLE		
Size X (mm)	Tolerance (mm)	Angle Tolerance (°)
$0.5 < X \leq 3$	$\pm 0.1\text{mm}$	$\pm 0.05^\circ$
$3 < X \leq 6$	$\pm 0.1\text{mm}$	$\pm 0.05^\circ$
$6 < X \leq 30$	$\pm 0.2\text{mm}$	$\pm 0.05^\circ$
$30 < X \leq 120$	$\pm 0.3\text{mm}$	$\pm 0.05^\circ$
$120 < X \leq 400$	$\pm 0.5\text{mm}$	$\pm 0.1^\circ$
$400 < X \leq 1000$	$\pm 0.8\text{mm}$	$\pm 0.1^\circ$
$X > 1000$	$\pm 1.2\text{mm}$	$\pm 0.1^\circ$

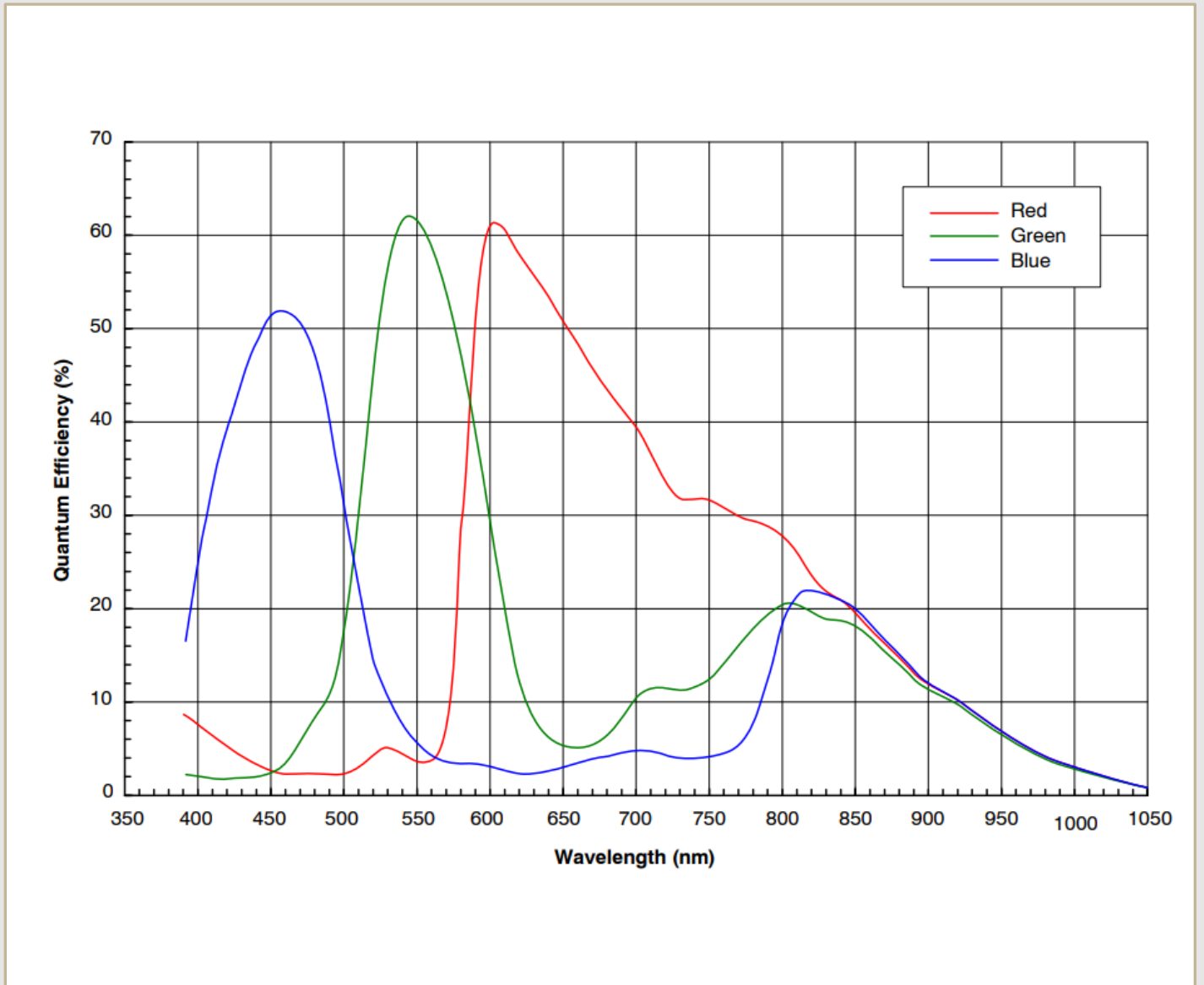
Note:

Tolerance for others unmarked refers to the tolerance table.

Unit: mm

AR0234 Sensor Specifications

● QUANTUM EFFICIENCY





● REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	22 Oct 2021

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