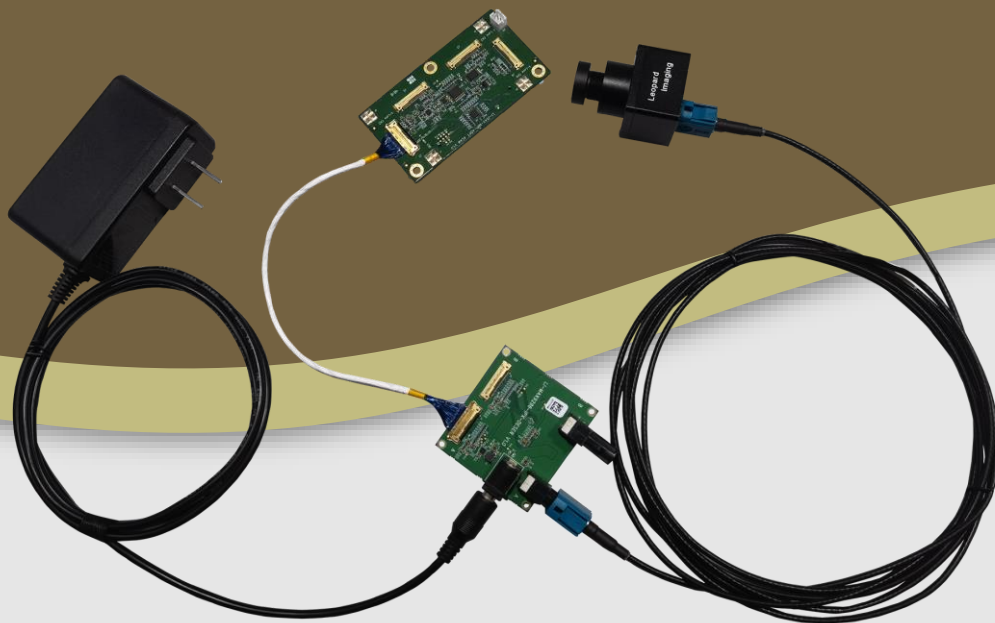




LI-IMX390-GMSL2-XAVIER-xxxH



Address:

910 Auburn Ct
Fremont, CA 94538
USA



Phone:

+1 (408)263-0988

Fax:

+1 (408)217-1960



Sales:

sales@leopardimaging.com

Support:

support@leopardimaging.com

KEY FEATURES

- Compatible with Nvidia® Jetson AGX Xavier™ Developer Kit
- Supports one GMSL2 camera
- Sensor: Sony Diagonal 6.67 mm (Type 1/2.7) CMOS RGGB image sensor IMX390
- Active pixels: 1937 (H) x 1217 (V)
- Pixel size: 3.0 x 3.0 μm
- Color camera
- Lens: FOV H 60° / 120° / 200°
- GMSL2 Serializer
- Includes De-serializer to convert serial interface to MIPI interface
- Length of Fakra cable: 3 meters
- Supports multiple length Fakra cables
- Length of the I-PEX cable: 300 mm
- Supports M12 lens
- Allows customization
- Part#: LI-IMX390-GMSL2-XAVIER-xxxH

060H	LI-IMX390-GMSL2-XAVIER-060H
120H	LI-IMX390-GMSL2-XAVIER-120H
200H	LI-IMX390-GMSL2-XAVIER-200H

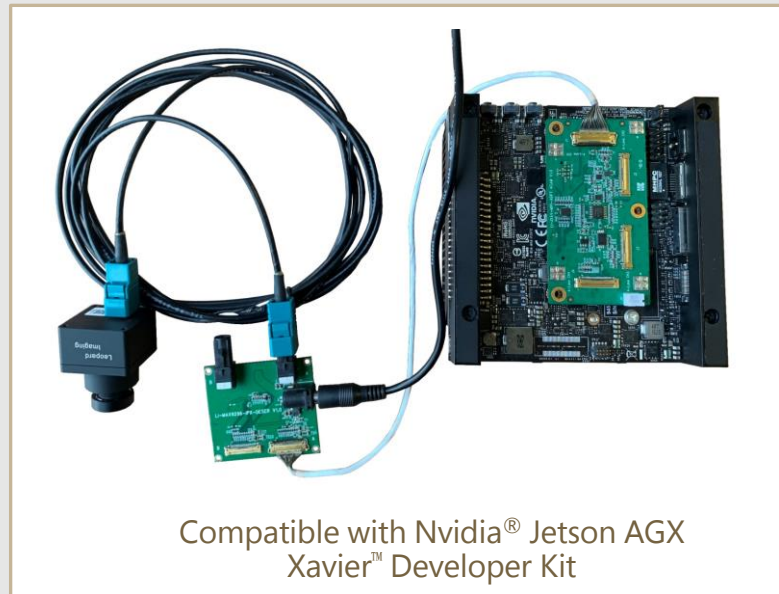
APPLICATIONS

- Automotive ADAS
- 1080P Video Applications
- ADAS + Viewing Fusion

BOM

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

#	Items	QTY
1	LI-IMX390-GMSL2-xxxH	1
2	FAK-SMZSMZ 3M	1
3	LI-GMSL2-IPX-DESER	1
4	FAW-1233-03 cable	1
5	LI-JXAV-MIPI-ADPT-4CAM	1
6	LI-PS12-01	1



LI-IMX390-GMSL2-xxxH



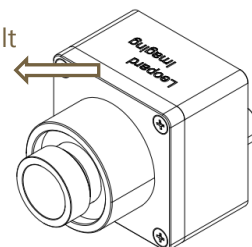
KEY FEATURES

Sensor	Sony Diagonal 6.67 mm (Type 1/2.7) CMOS Image Sensor IMX390
Optical Format	1/2.7"
Resolution	1937 (H) x 1217 (V) (active pixels)
Pixel Size	3.0 x 3.0 μm
Data Format	20-bit / 12-bit RAW data
Color / Mono	Color sensor
Lens	FOV H 60° / 120° / 200°
Serializer	Maxim MAX9295A/B
Power Supply Range	9 ~ 19 VDC
Interface	GMSL2 Serial interface
Operating Temp	-40°C ~ +85°C
Storage Temp	-40°C ~ +85°C
Weight	~ 45 g
Part#	LI-IMX390-GMSL2-xxxH

DEFAULT IMAGING DIRECTION

- The logo "Leopard Imaging" is on the TOP.

Top (Default Imaging Direction)



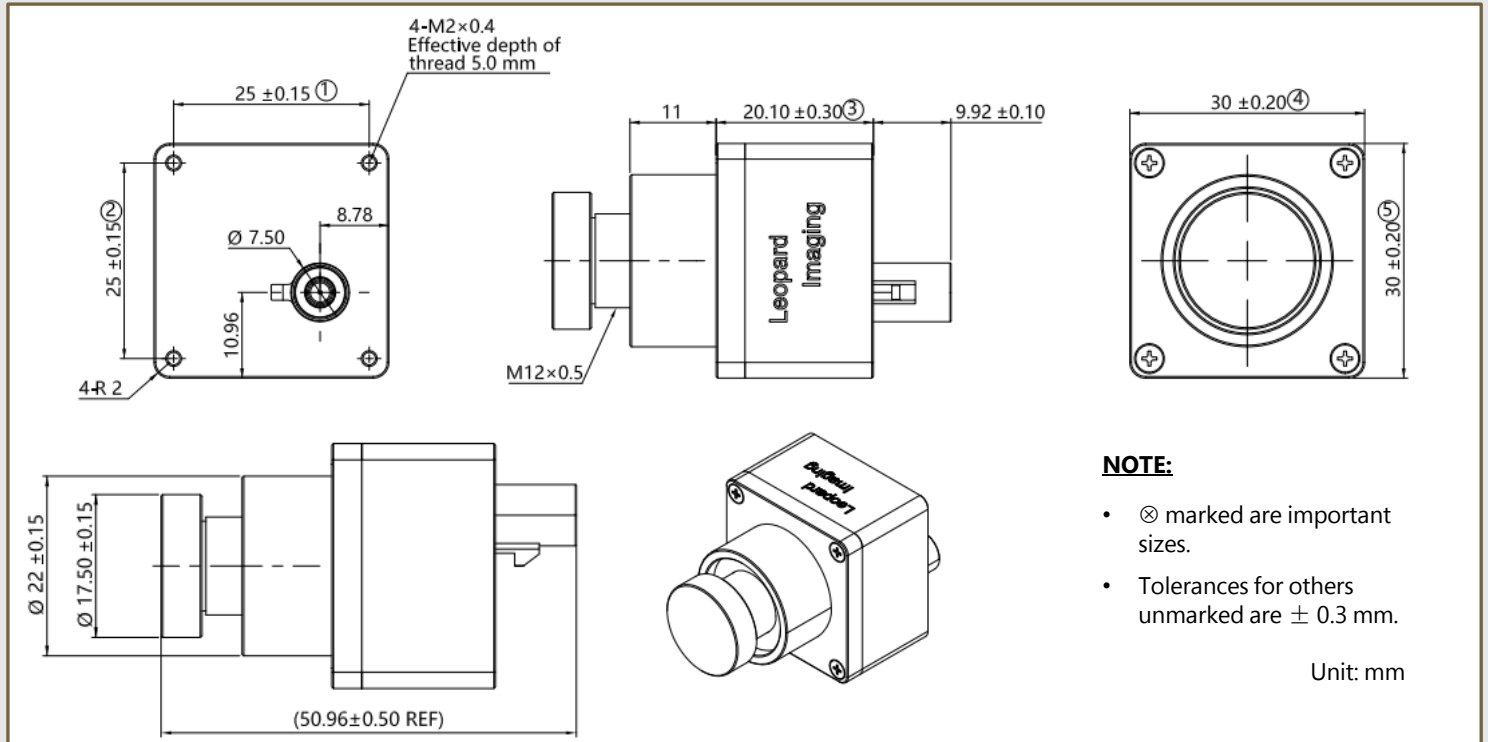
CABLE CONNECTOR

- Housing Connector: FAKRA Z Type
- Cable Length: 3 meters
- Cable Part#: FAK-SMZSMZ-3M

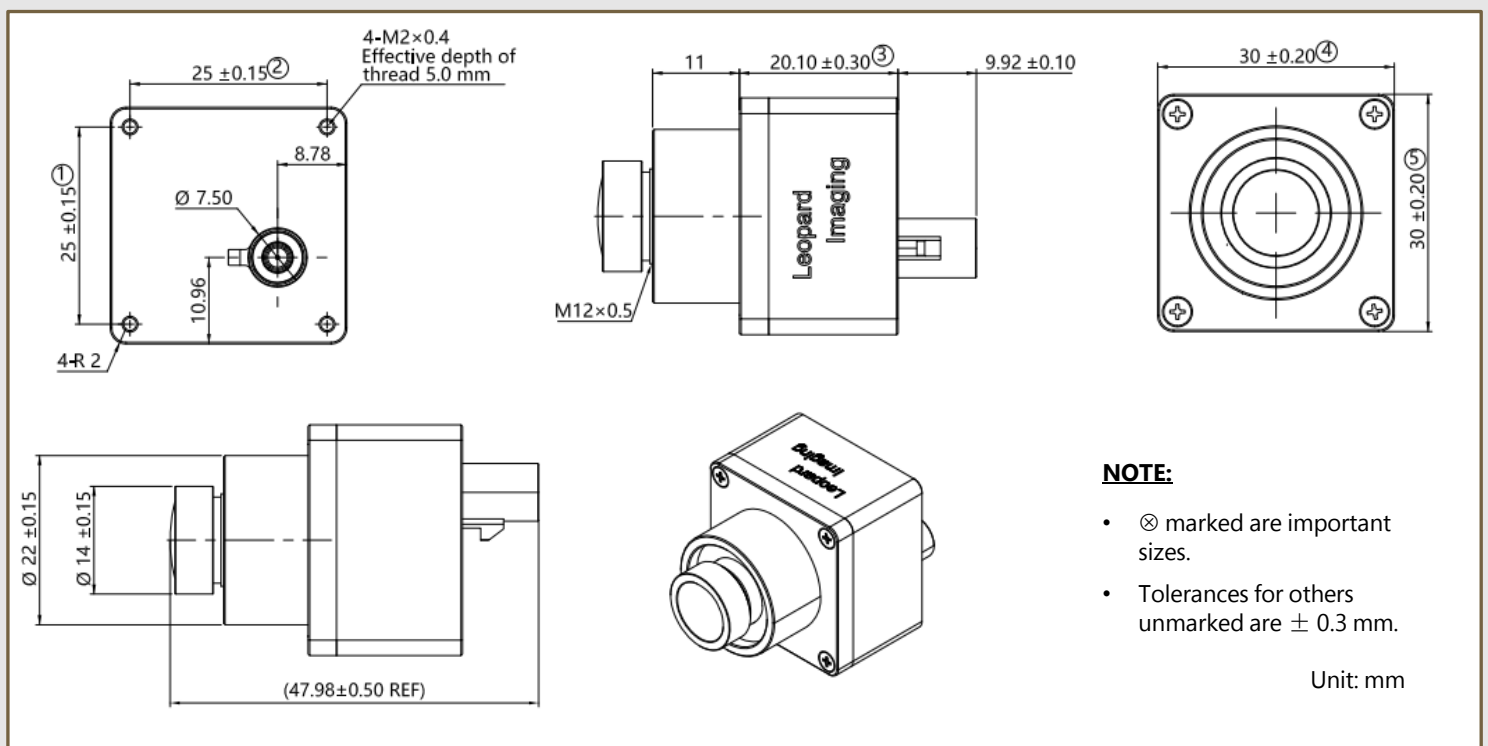


LI-IMX390-GMSL2-xxxH

DIMENSIONS: LI-IMX390-GMSL2-060H

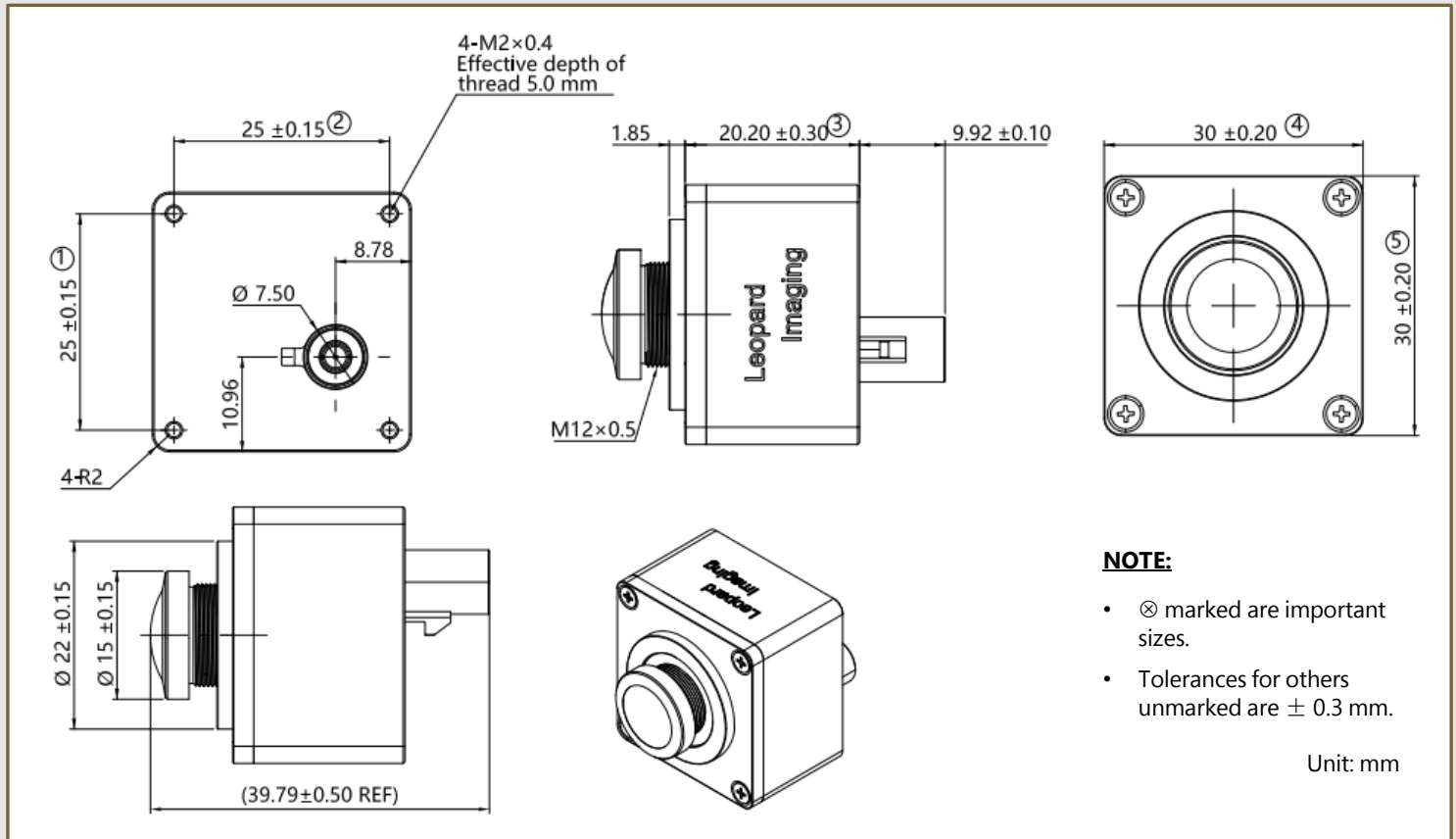


DIMENSIONS: LI-IMX390-GMSL2-120H



LI-IMX390-GMSL2-xxxH

DIMENSIONS: LI-IMX390-GMSL2-200H



LI-IMX390-GMSL2-xxxH

LENS INFORMATION

xxxH refers to 060H (FOV H 60°), 120H (FOV H 120°), 200H (FOV H 200°)

LI-IMX390-GMSL2-060H

Lens EFL: 6.0 mm
Field of View (FOV): 74.5° (D) / 60.6° (H) / 36.1° (V)
Mount: M12

LI-IMX390-GMSL2-120H	LI-IMX390-GMSL2-200H
	
Lens EFL: 2.8 mm	Lens EFL: 0.95 mm $\pm$ 5%
Field of View (FOV): 148° (D) / 122° (H) / 74° (V)	Field of View (FOV): 200° (H)
Mount: M12	Mount: M12

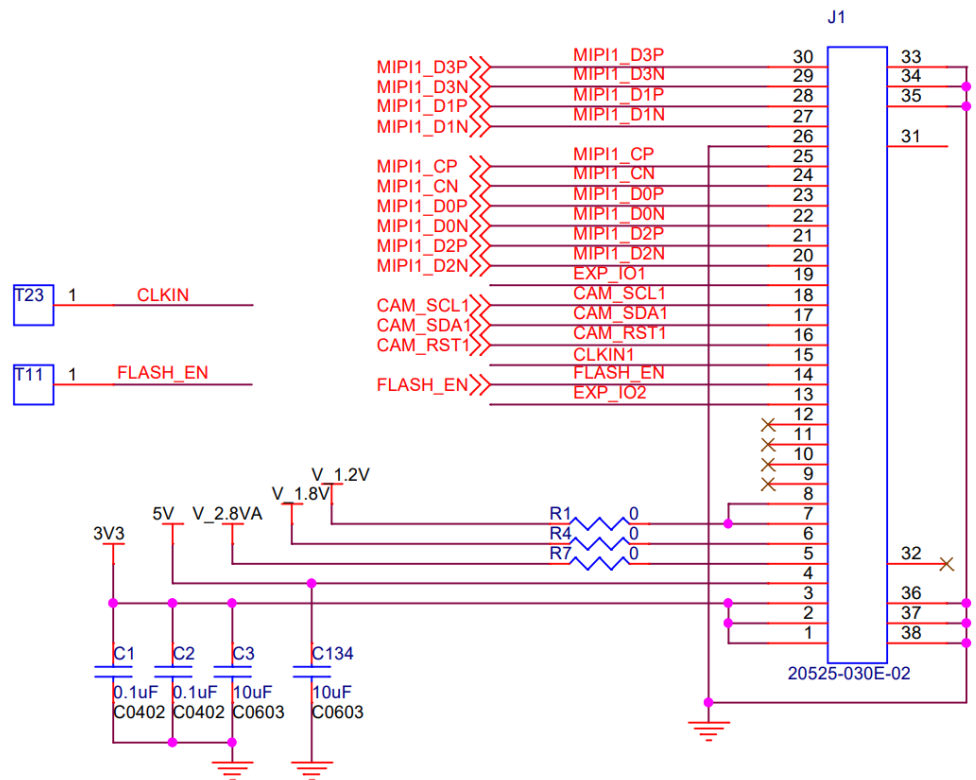
LI-JXAV-MIPI-ADPT-4CAM



INTERFACES

Interface J1 (Camera Channel 1)

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-XX

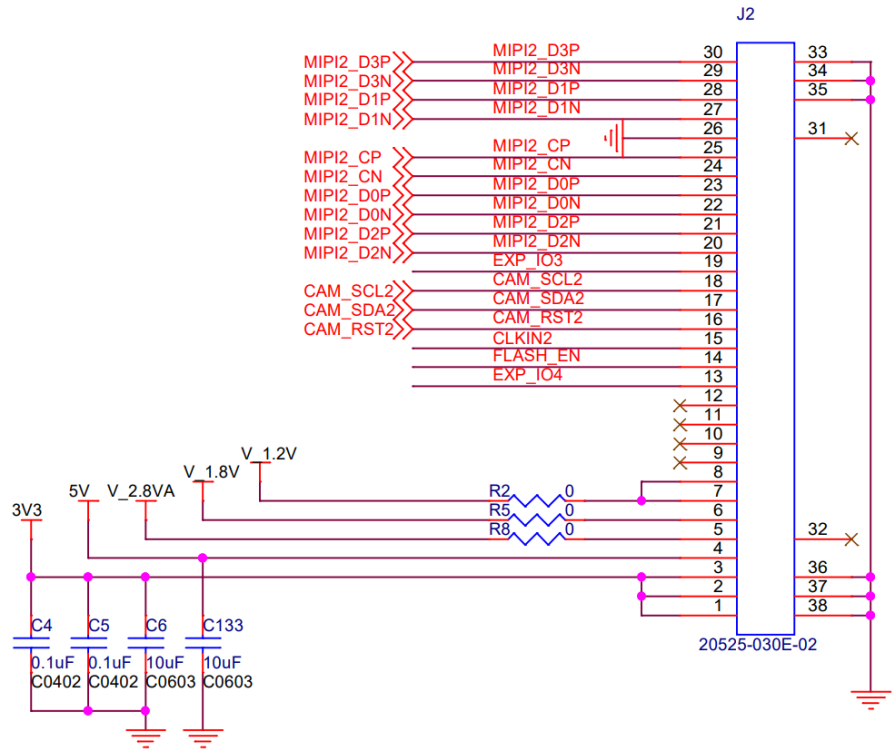


LI-JXAV-MIPI-ADPT-4CAM

INTERFACES

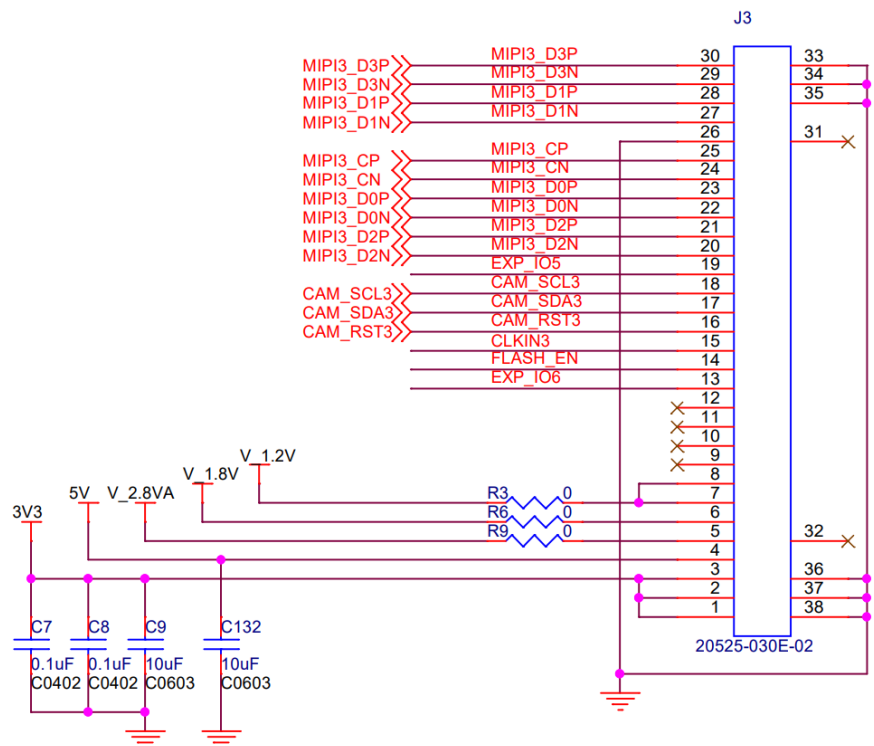
Interface J2 (Camera Channel 2)

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-XX



Interface J3 (Camera Channel 3)

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-XX

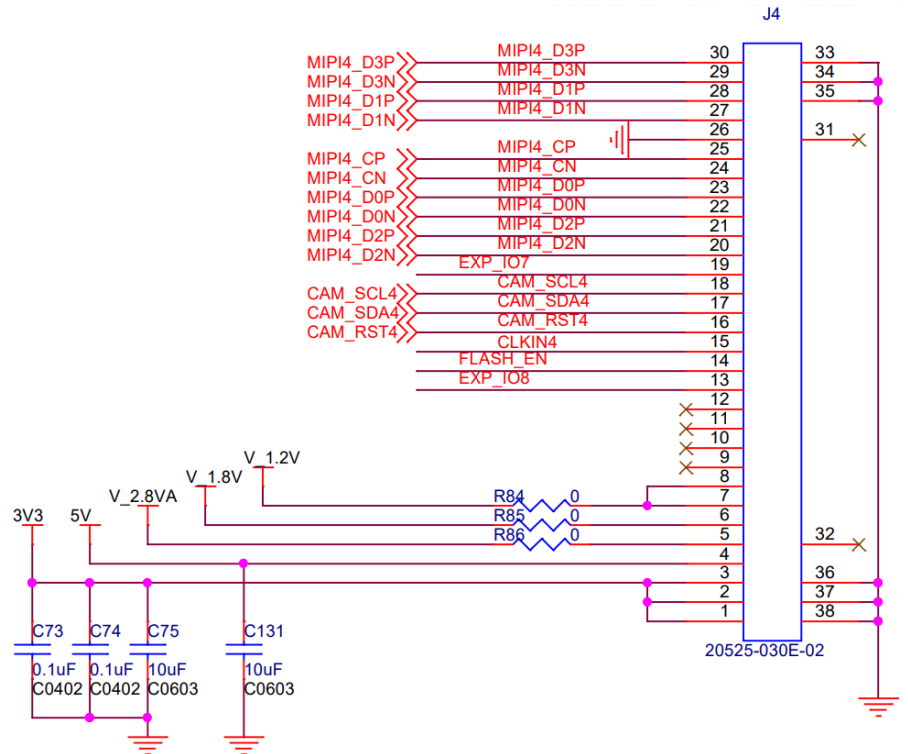


LI-JXAV-MIPI-ADPT-4CAM

INTERFACES

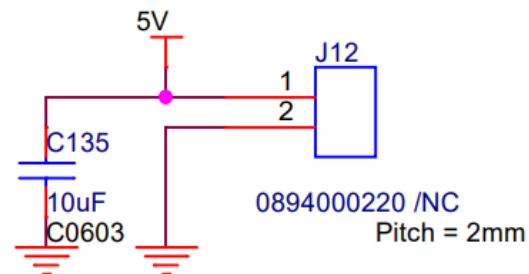
Interface J4 (Camera Channel 4)

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-XX



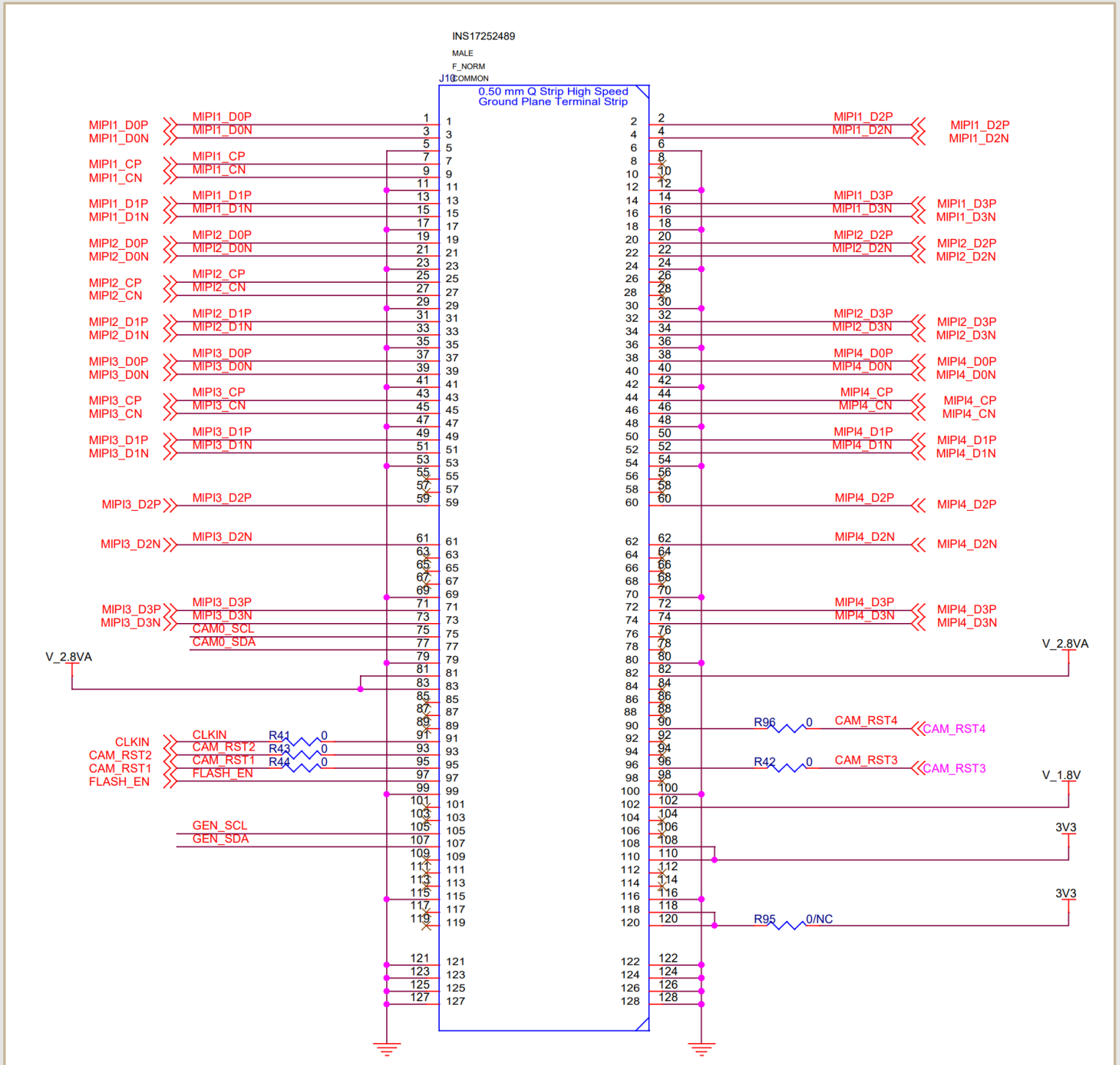
Interface J12 (NOT Used)

- Part#: 0894000220
- Number of Positions: 2
- Pitch: 2 mm



LI-JXAV-MIPI-ADPT-4CAM

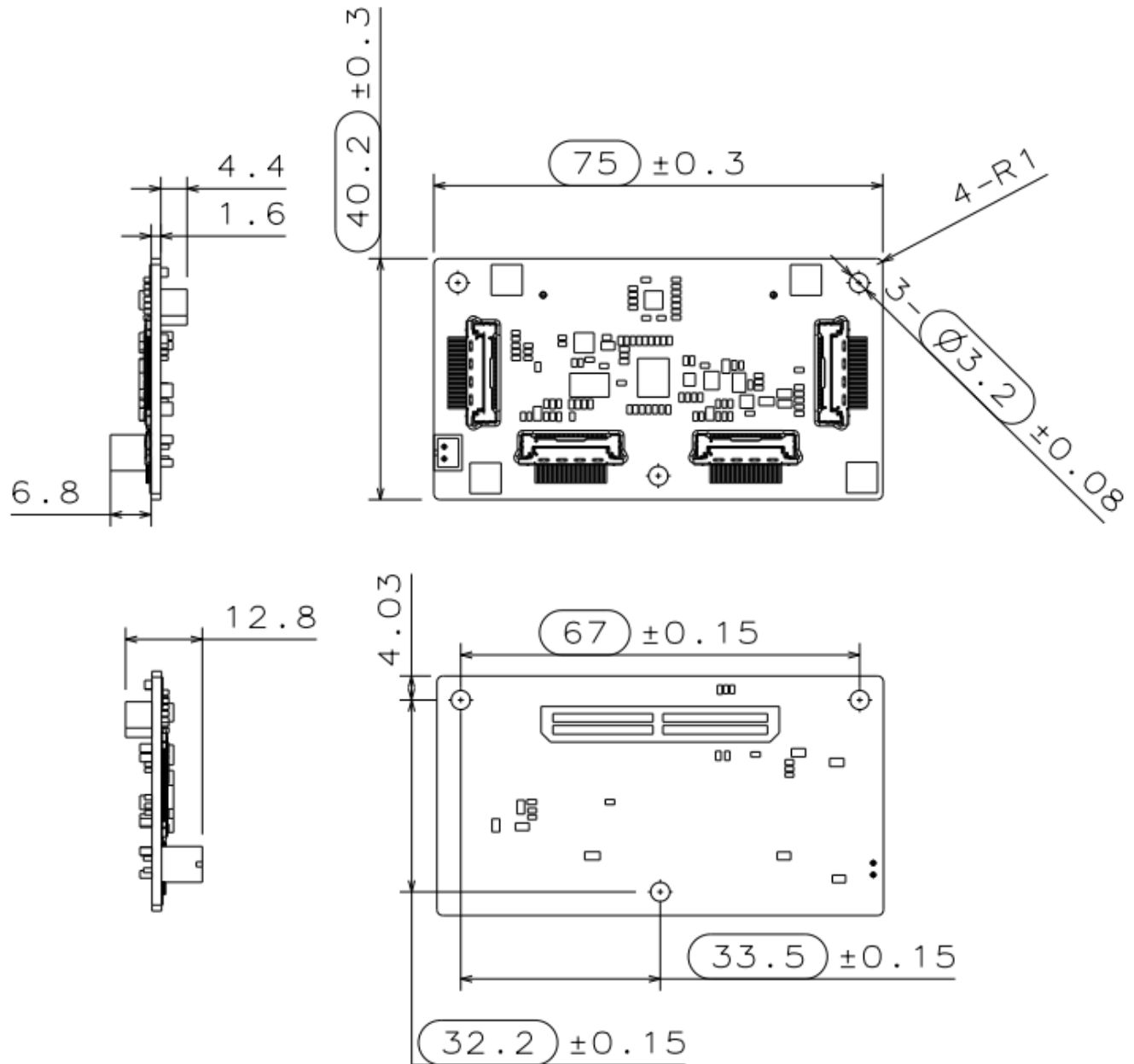
INTERFACE J10 (To Xavier)



- Part#: QTH-060-01-L-D-A
- Number of Positions: 120
- Number of Rows: 2
- Pitch: 0.5 mm

LI-JXAV-MIPI-ADPT-4CAM

DIMENSIONS



NOTE:

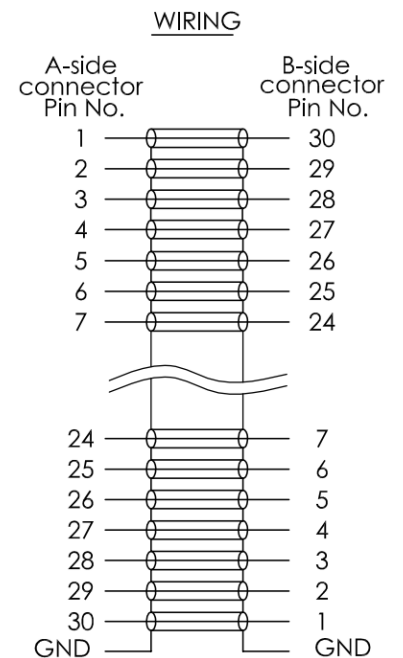
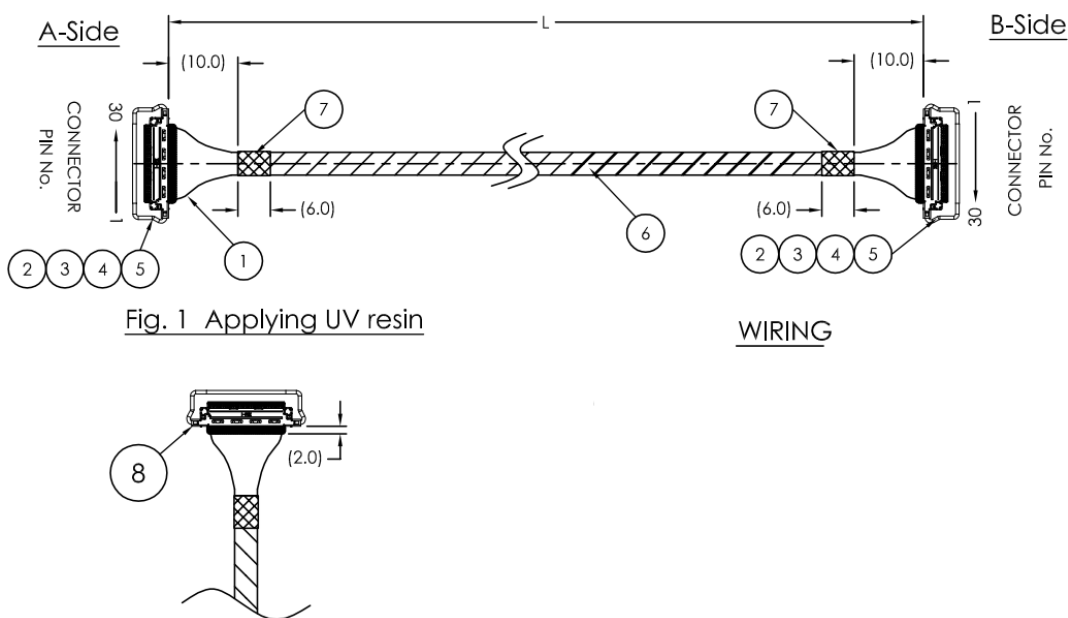
- $\square$ marked are important sizes.
- Tolerances for the unmarked are ± 0.3 mm.

Unit: mm

FAW-1233-03 Cable



MECHANICAL DIAGRAM



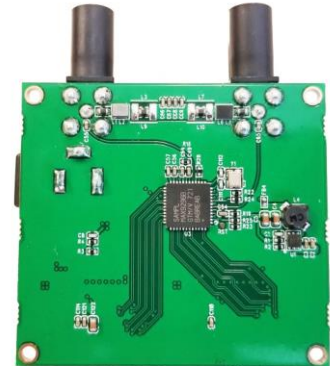
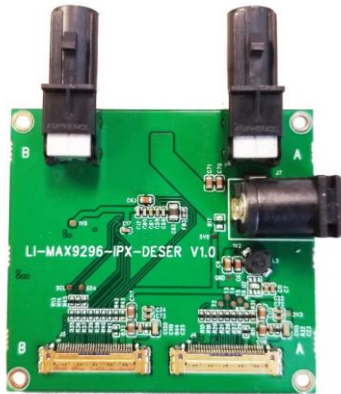
8	UV RESIN	2	LOCBOND P/N : LOCBOND 349
7	TAPE	2	CHUKOH P/N: ASF-116T
6	TAPE	1	CHUKOH P/N: SEF-110
5	FLAT COPPER WIRE	4	GROUND BAR
4	PULL BAR	2	I-PEX P/N : 2766-0301
3	SHIELD PLATE	2	I-PEX P/N : 2764-0301-002
2	CONNECTOR	2	I-PEX P/N : 20634-130T-02
1	CABLE	30	UL10231 AWG40 MCX (Z=50ohm)
ITEM	DESCRIPTION	Q'TY	REMARK

NOTE:

- Total length: 300.0 ± 10.0 .
- Apply UV resin at the end of connector to cover cables both sides of the cable assembly (Fig.1).

Unit: mm

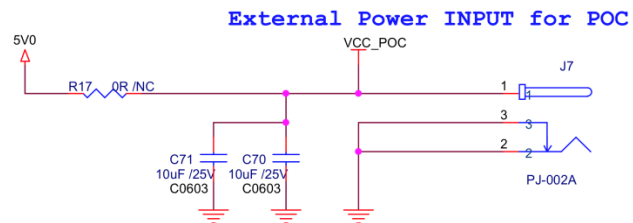
LI-GMSL2-IPX-DESER



INTERFACES

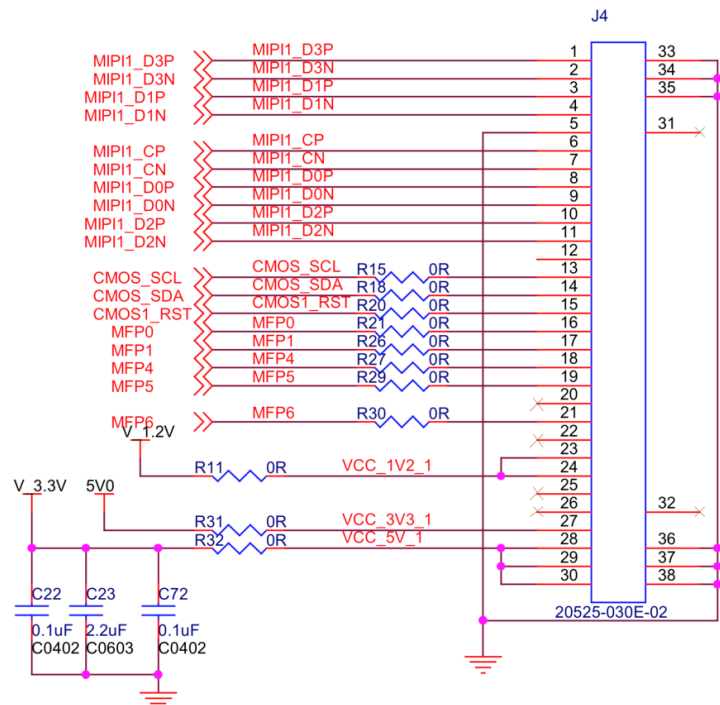
Interface J7

- Part#: PJ-002A
- Power Supply: 12 VDC



Interface J4

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX cable: FAW-1233-03 (300mm)

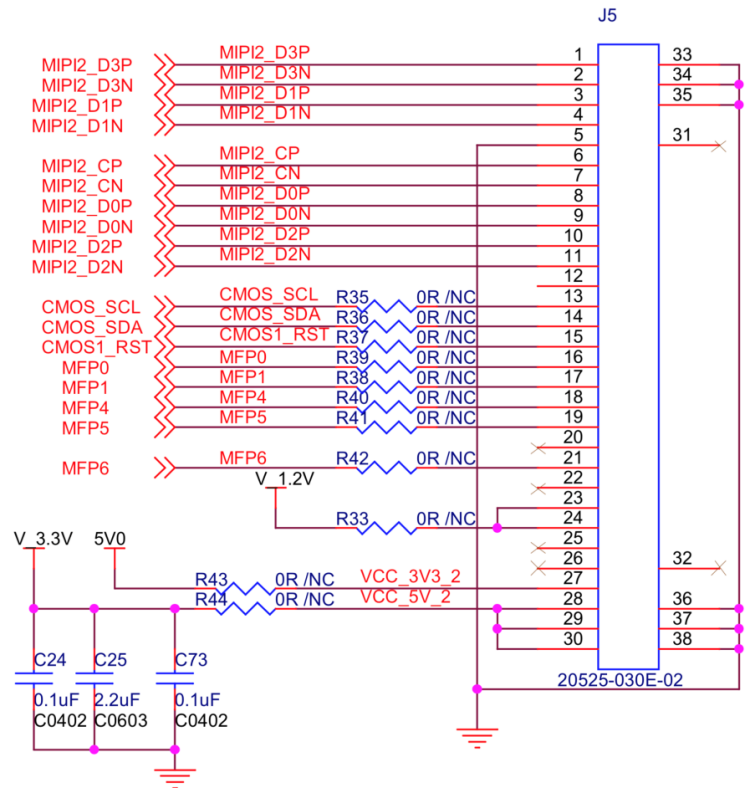


LI-GMSL2-IPX-DESER

INTERFACES

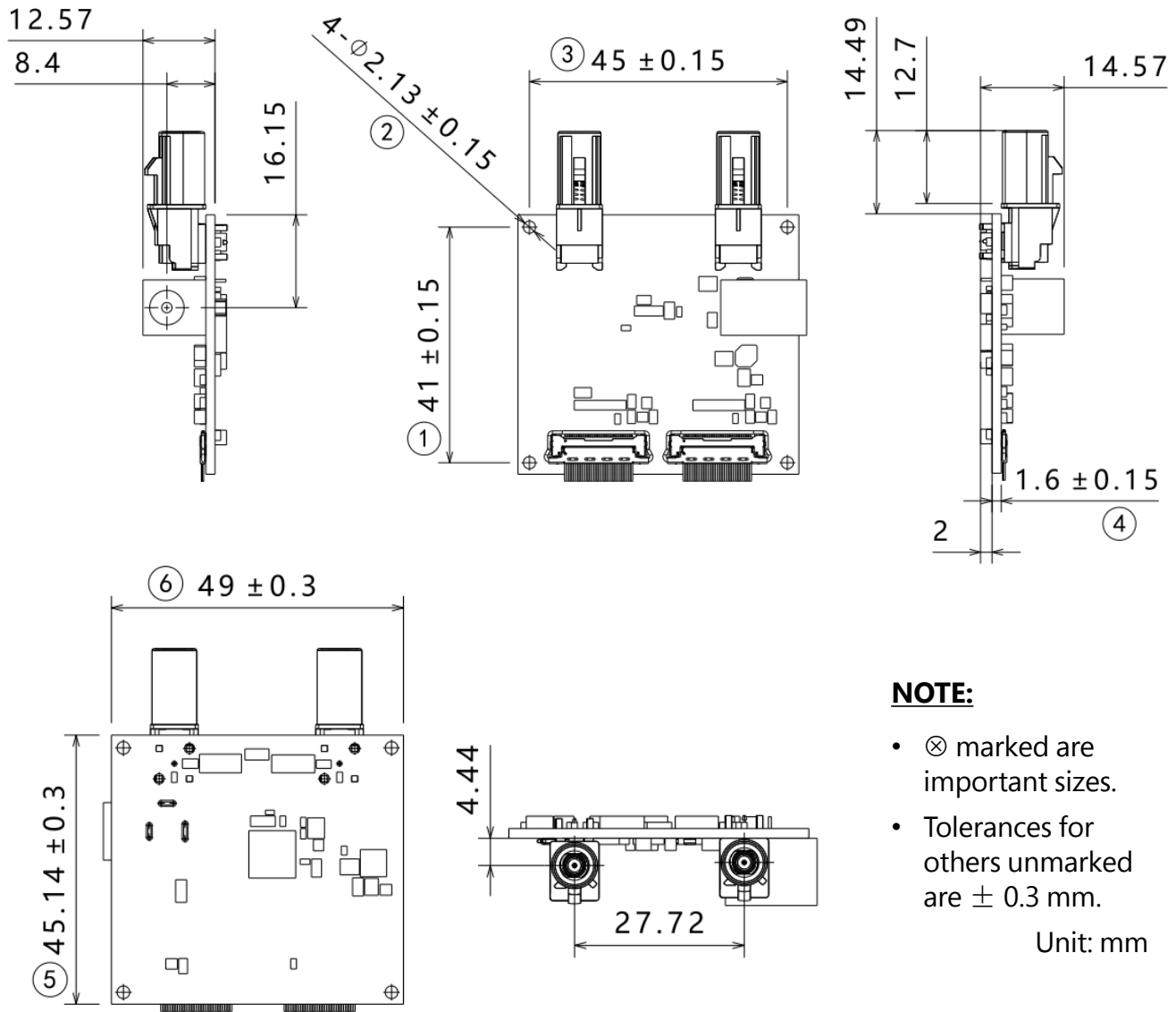
Interface J5

- Part#: 20525-030E-02
- Number of Positions: 30
- Pitch: 0.4 mm
- Mating I-PEX Cable: FAW-1233-XX



LI-GMSL2-IPX-DESER

DIMENSIONS



NOTE:

- ⊗ marked are important sizes.
- Tolerances for others unmarked are ± 0.3 mm.

Unit: mm

● REVISION HISTORY

Revision	Description	Release Date
1.0	First release.	11 Jul 2019
1.1	1. Changed 200H lens from F13B0108WM12R1 to E7393E-R8 and updated related pictures and 2D dimensions. 2. Added LI-GMSL2-IPX-DESER 2D dimensions.	23 Nov 2022
1.2	1. Replaced 3D images of 200H lens with actual product pictures. 2. Deleted the schematic of MAX9296.	20 Mar 2023

910 Auburn Ct, Fremont, CA 94538, USA

Phone: +1-408-263-0988

Fax: +1-408-217-1960

Email: sales@leopardimaging.com

Website: www.leopardimaging.com



Leopard Imaging Inc.

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