



LEOPARD IMAGING INC

LI-OV10640-490-GMSL

Data Sheet

Key Features

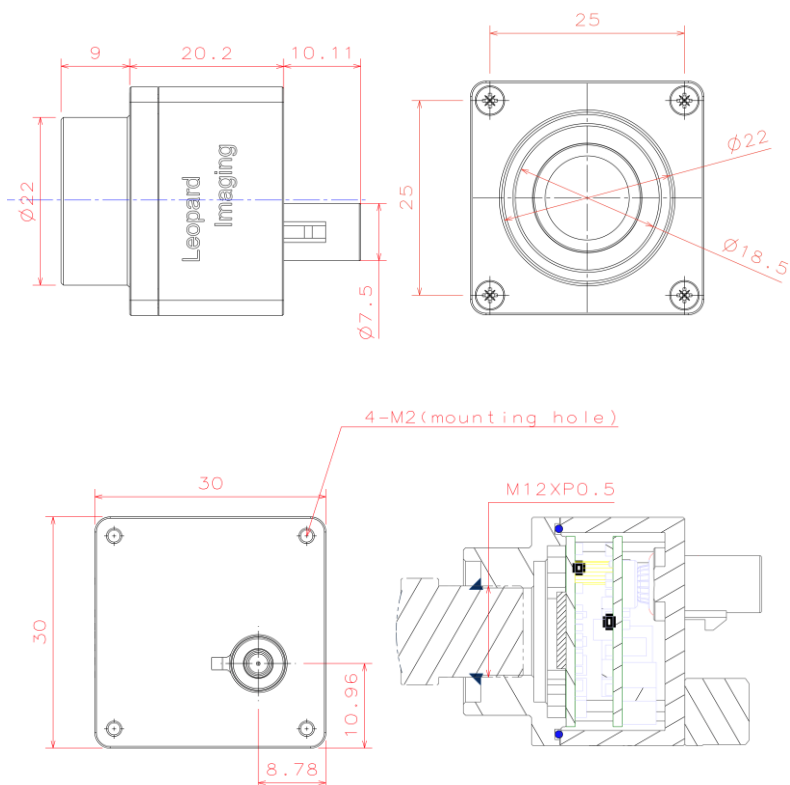
- OmniVision CMOS 1.3MP HDR Sensor OV10640
- Optical format: 1/2.56"
- Active pixels: 1280H x 1080V
- Pixel size: 4.2 μm x 4.2 μm
- Tuned YUV data Coax Serial real time streaming
- Support HDR
- Support 4 V ~ 7V Power
- Built-in ISP: OV490
- MAX96705 Serializer
- Connector: FAKRA Z TYPE
- Operation Temp: -40 ~ 85 °C
- Storage Temp: -40 ~ 105 °C
- Weight: 45 g
- Part#:
LI-OV10640-490-GMSL-055H
LI-OV10640-490-GMSL-115H



Application

- Automotive camera
- Camera monitoring system
- Surround view system

Dimensions

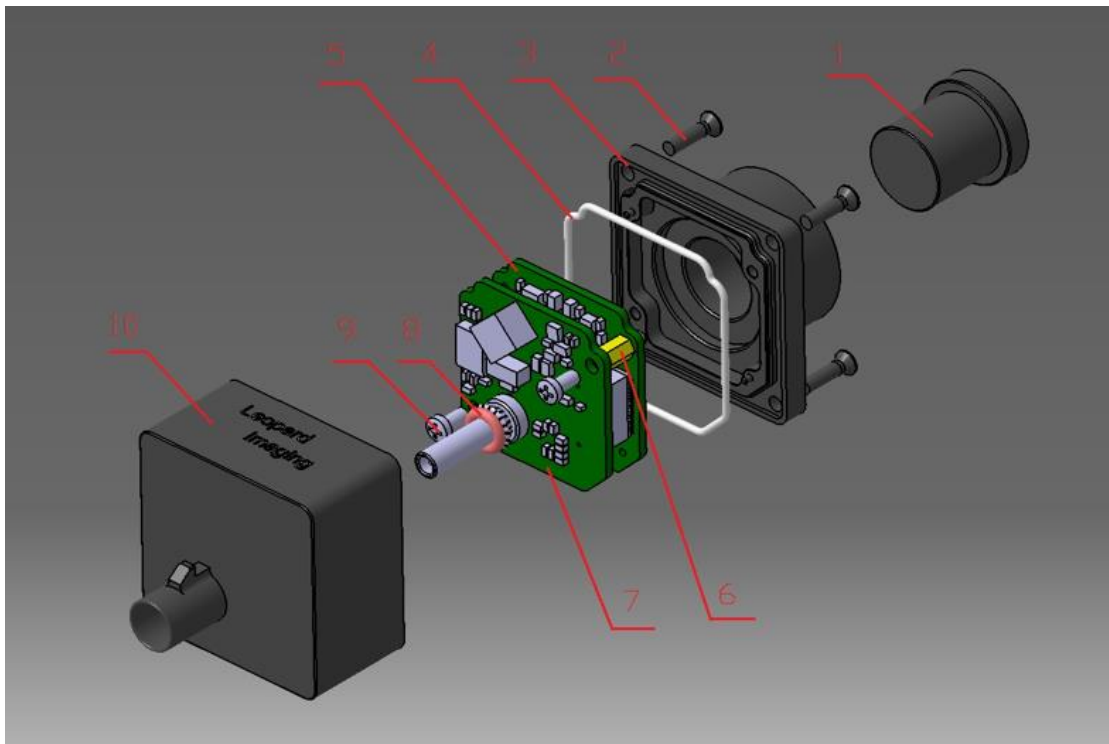


Leopard Imaging Inc.

48820 Kato Road, Suite 100B, Fremont, CA 94538, USA
Phone: +1-408-263-0988
Fax: +1-408-217-1960
Email: sales@leopardimaging.com
Website: www.leopardimaging.com

BOM

#	Name	SPEC	QTY/SET
1	Lens	M12 lens	1
2	Screw	M2*8 cross flat head black ZINC	4
3	Shell 2	AL6061-T6 BLACK Anodizing	1
4	Sealing ring	Silicon rubber, White	1
5	LI-OV10640-490-FKRCAM	OV10640-490 sensor board	1
6	Copper pillar	M2*5+3	2
7	LI-GMSL-FKR	GMSL board	1
8	O ring	6.5*1.5 Silicon rubber Red	1
9	Screw	M2*4 cross pan head black ZINC	2
10	Shell 1	AL6061-T6 BLACK Anodizing	1

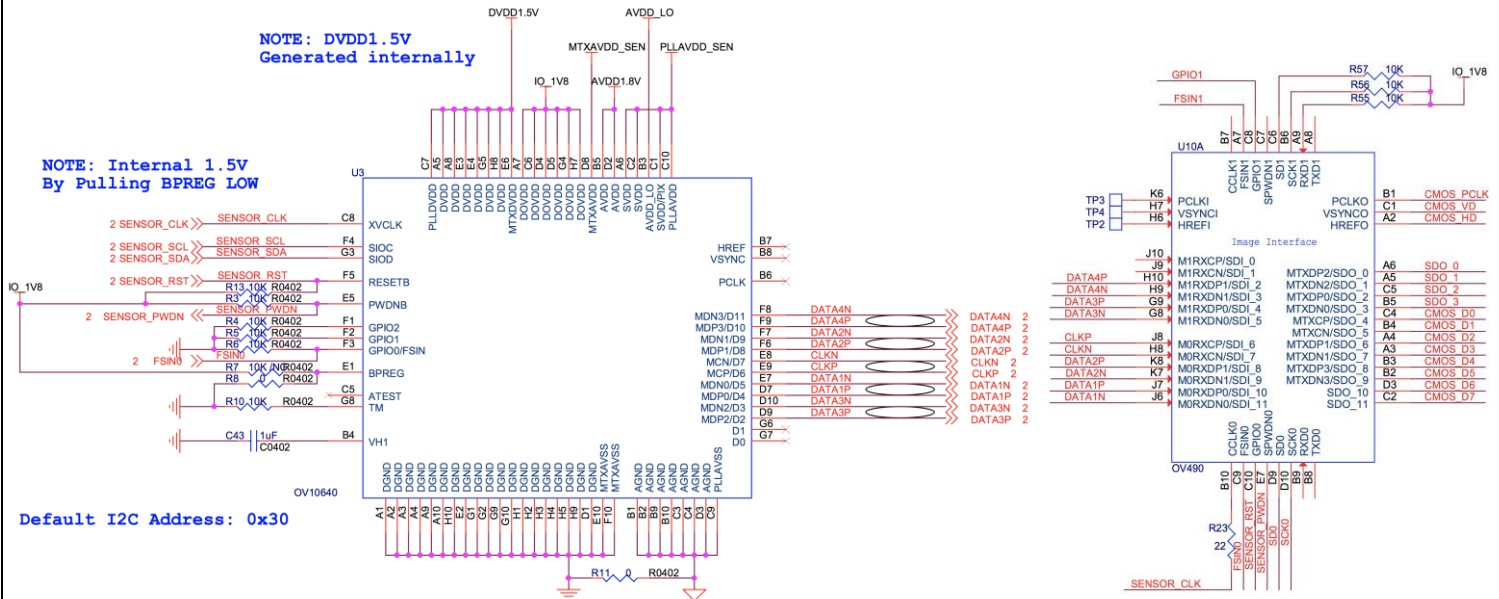


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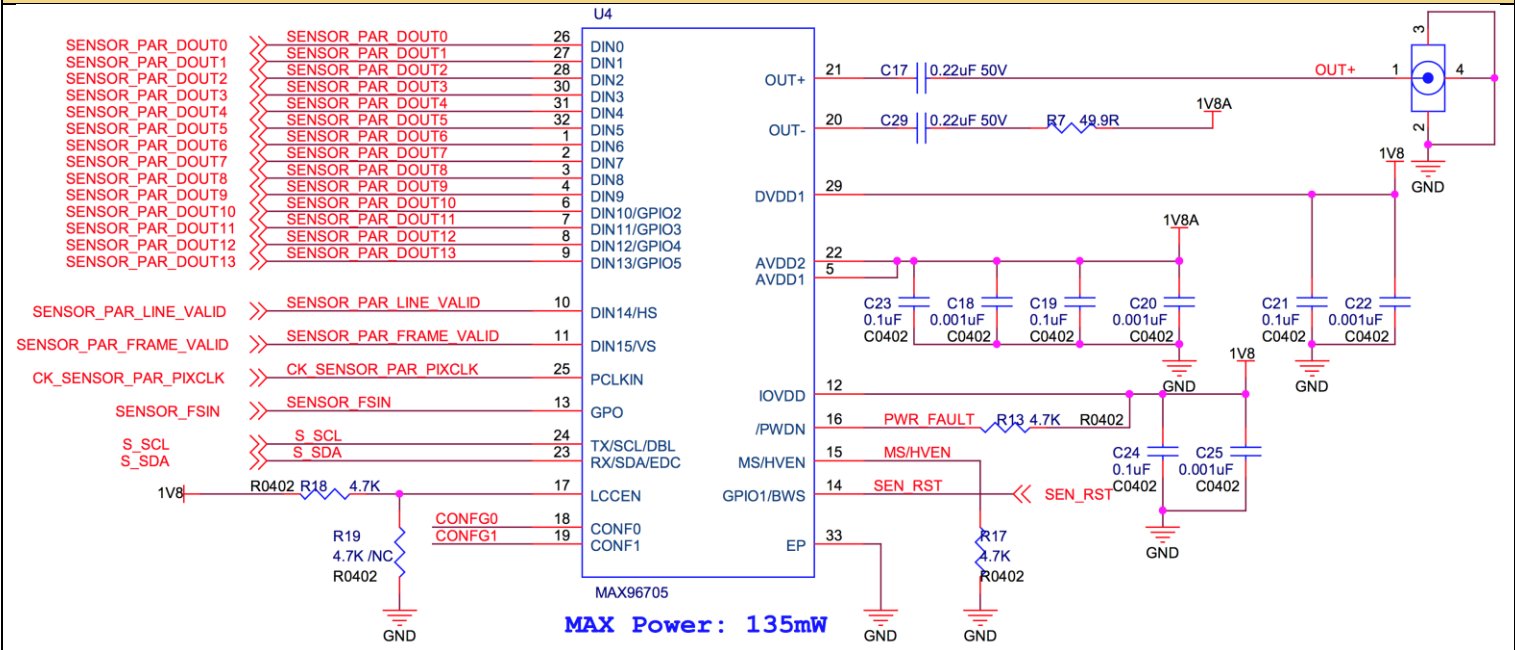
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PCB Circuit

OV10640 sensor and OV490 ISP



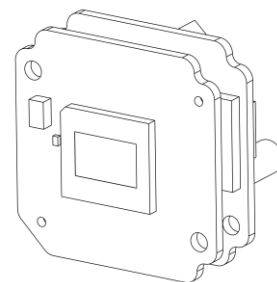
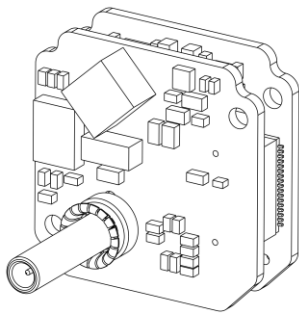
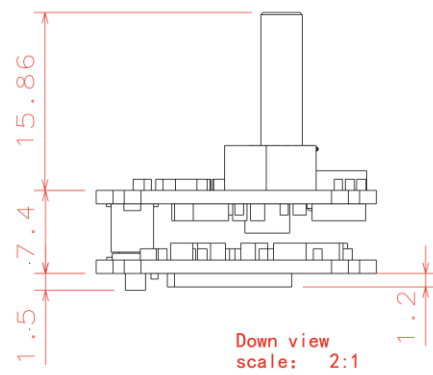
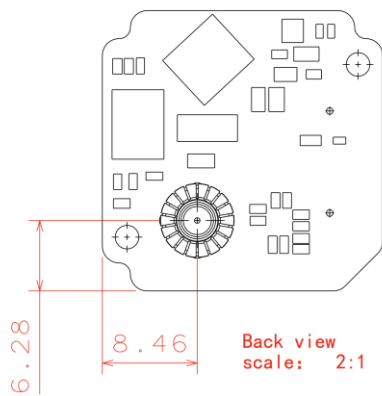
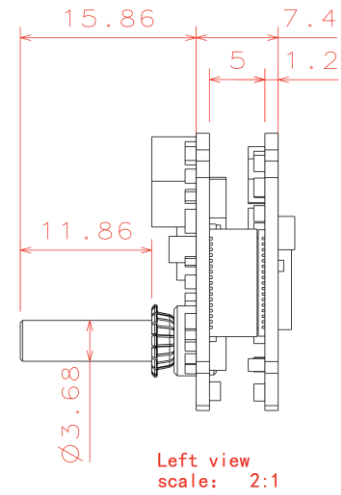
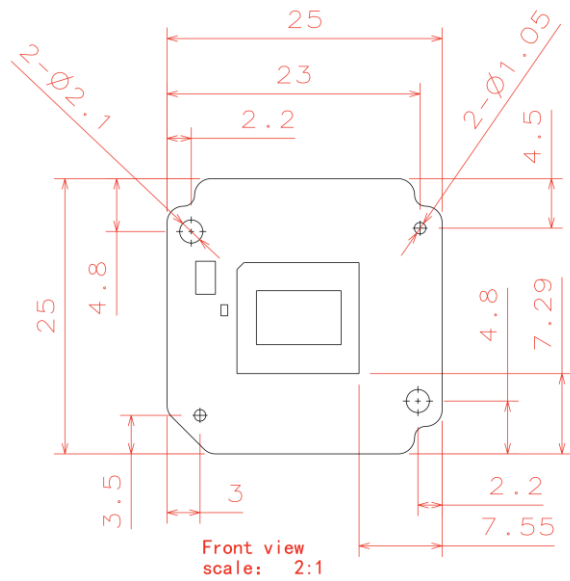
MAX96705



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Camera boards Dimensions



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Cable Connector

- Housing Connector- FAKRA Z Type
- Cable length: 3 meters
Support single Coax Cable transmit up to 12 meters
- Cable Part#: FAK-SMZSMZ-3M
- FAKRA type connectors



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Ordering Information

Part#: LI-OV10640-490-GMSL-xxxH

Note:

xxxH - 055H: FOV H 55°
115H: FOV H 115°

LI-OV10640-490-GMSL-055H	LI-OV10640-490-GMSL-115H
Lens: M127B0618W Lens EFL: 6.0 mm FOV(D): 75° FOV(H): 55° FOV(V): 46°	Lens: M128B02820WM12R1 Lens EFL: 2.8 mm FOV(D): 150° FOV(H): 114° FOV(V): 96°



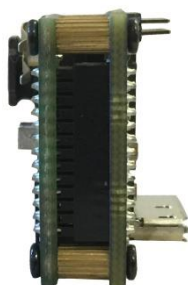
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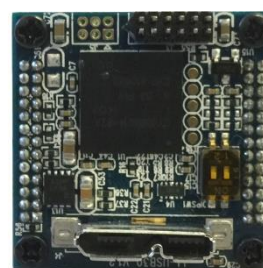
LI-TESTER-NV



Front View



Side View



Back View

LI-OV10640-490-GMSL can connect to USB 3.0 EVA module as a USB 3.0 camera.

Part#: **LI-USB30-OV10640-490-GMSL-xxxH**

Key Features

- USB 3.0 Super Speed support
- YUV output without compression
- UVC compliance
- Provide customization services
- USB +5VDC powered device
- Support HDR
- Weight: 86 g
- Single Coax Cable transmit up to 12 meter PoC(Power over Cable)
- Support 1280x1080@30fps
- Power consumption: 425 mA at 5 VDC
- Supported by Windows, Mac, Linux OS and other OS with full UVC driver included.



SDK Supported

- Camera Tool Source Code in C#
- Capture & Display



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Revision History

Revision	Description	Release Date
1.0	First Release	27. July. 2017



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[LI-OV10640-490-GMSL-XXXH](#) [LI-OV10640-490-GMSL-055H](#) [LI-OV10640-490-GMSL-115H](#) [LI-USB30-OV10640-490-GMSL-055H](#) [LI-USB30-OV10640-490-GMSL-115H](#)