



LEOPARD
IMAGING

LI-S5K1H1SBRCCG-96717-xxxH



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INTRODUCTION

The LI-S5K1H1SBRCCG-96717-xxxH is equipped with Samsung automotive 1/1.7" 8.3MP CMOS RCCG image sensor S5K1H1SB which has On-Chip HDR and LFM. Its serializer is Maxim GMSL2 serializer MAX96717. This camera outputs RAW image data.

SPECIFICATIONS

Sensor	Samsung Automotive 1/1.7" 8.3MP CMOS RCCG Image Sensor S5K1H1SB
Optical Format	1/1.7"
Resolution	3856 (H) x 2176 (V) (active pixels)
Pixel Size	2.1 x 2.1 μ m
Output Format	20-bit / 16-bit / 14-bit / 12-bit RAW
Color / Mono	Color sensor
Maximum Frame Rate	36 fps (intra-scene) @ 8.3MP with HDR4_NEW or HDR4_VS 45 fps @ all operation mode
HDR (High Dynamic Range)	Supported
LFM (LED Flicker Mitigation)	Supported
Serializer	Maxim MAX96717
Lens	FOV H 30° / 70° / 100°
IP Rating	TBD
Power Supply Range	7 ~ 24 VDC
Connector	FAKRA Z TYPE
Power Consumption	98 mA @ 12 VDC (3840 x 2160 @ 20 fps)
Operating Temp	TBD
Storage Temp	TBD
Weight	Around 48 g
Part#	LI-S5K1H1SBRCCG-96717-xxxH

APPLICATIONS

- Automotive
 - ◆ Autonomous Driving
 - ◆ High Performance ADAS
 - ◆ Front Forwarding Camera
 - ◆ Surround Sensing / Viewing Camera

IMAGE ORIENTATION



CABLE CONNECTOR

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



LI-S5K1H1SBRCCG-96717-030H



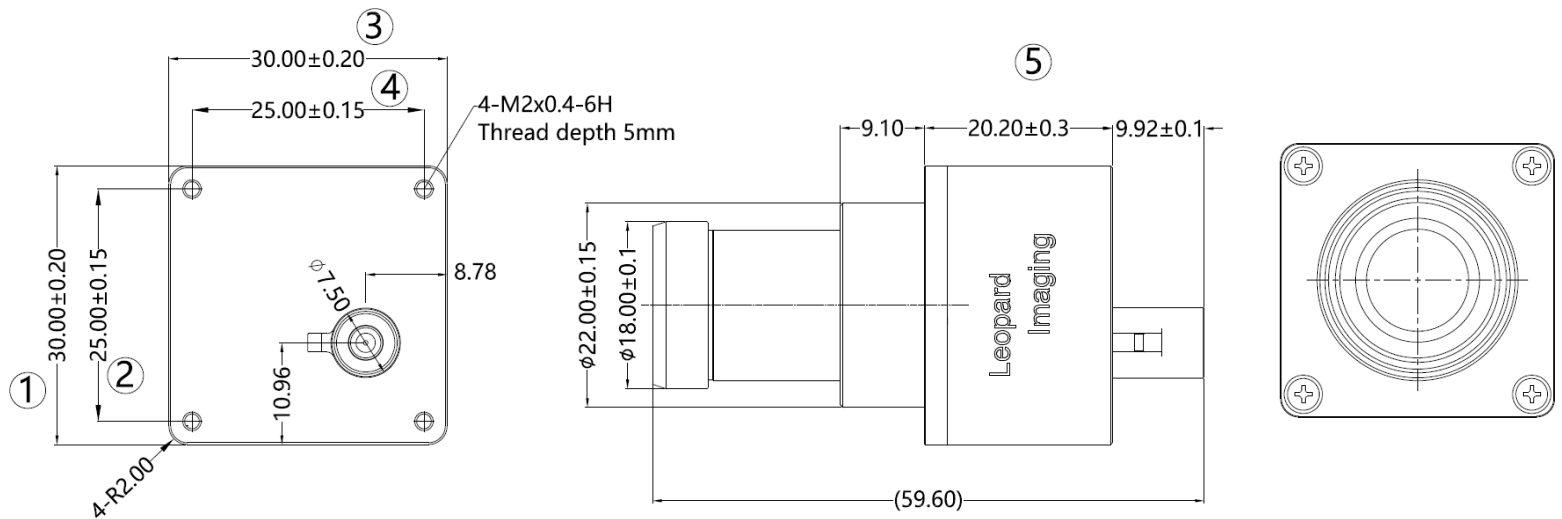
LI-S5K1H1SBRCCG-96717-070H



LI-S5K1H1SBRCCG-96717-100H



DIMENSIONS: LI-S5K1H1SBRCCG-96717-030H

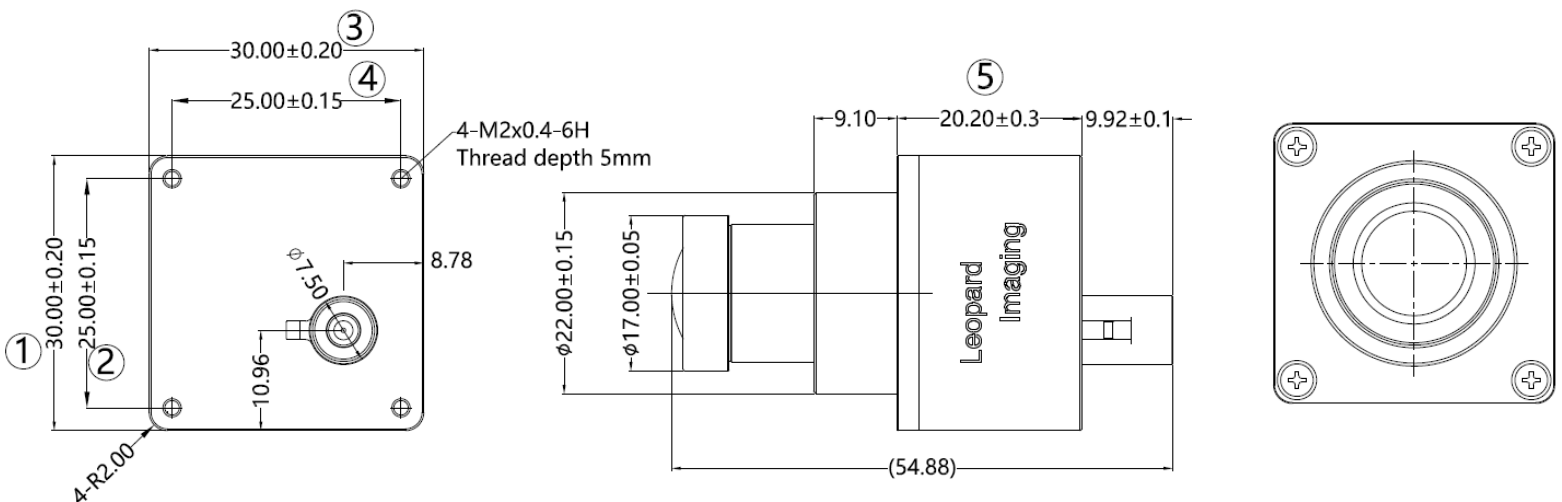


NOTE:

- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked are ± 0.3 mm.

Unit: mm

DIMENSIONS: LI-S5K1H1SBRCCG-96717-070H

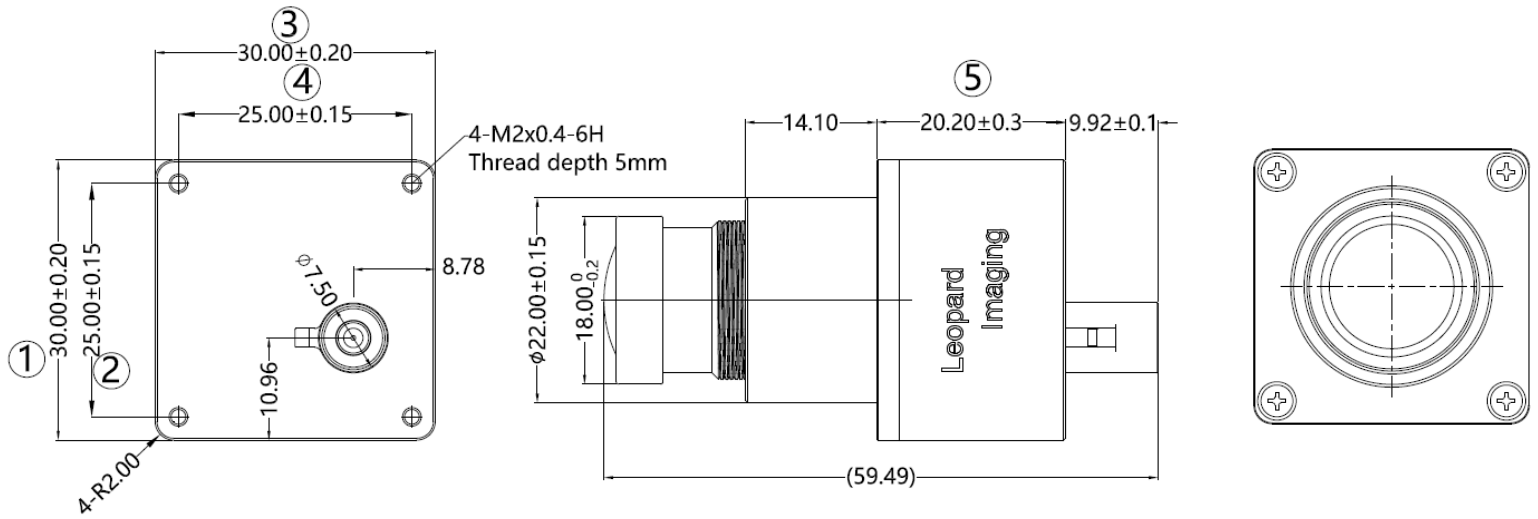


NOTE:

- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked are ± 0.3 mm.

Unit: mm

DIMENSIONS: LI-S5K1H1SBRCCG-96717-100H



NOTE:

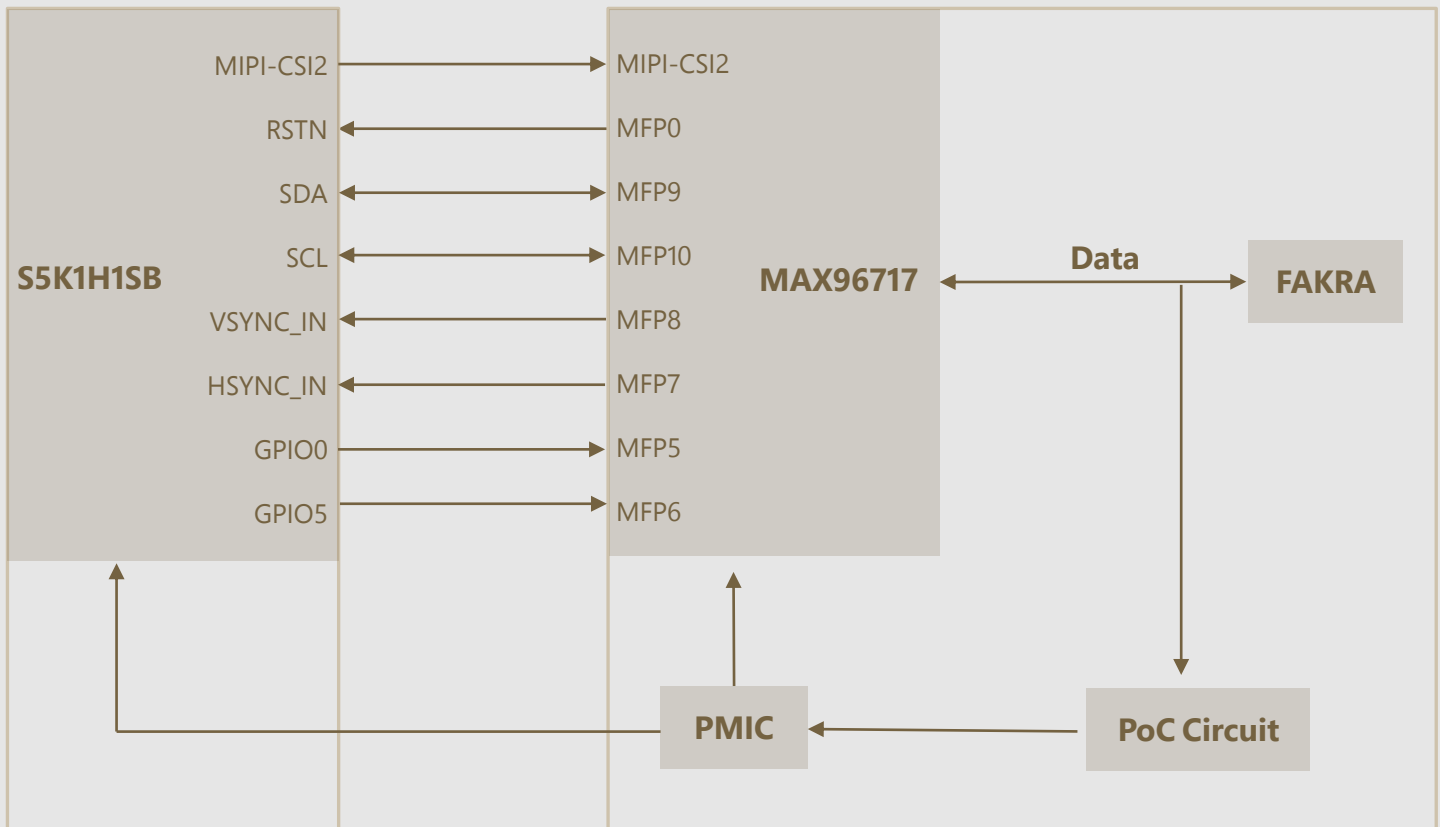
- ⊗ marked are important sizes.
- All materials are compliant with RoHS requirements.
- Tolerances for others unmarked are ± 0.3 mm.

Unit: mm

SYSTEM BLOCK DIAGRAM

(I2C: 0x20 8-bit)

(I2C: 0x84 8-bit)



ORDERING INFORMATION

NOTE:

xxxH refers to 030H (FOV H 30°), 070H (FOV H 70°) or 100H (FOV H 100°)

LI-S5K1H1SBRCCG-96717-030H



Lens EFL: 15.34 mm $\pm$ 5%

Aperture, F/#: 1.6 $\pm$ 5%

Field of View (FOV): 30° $\pm$ 1° (H) / 17° $\pm$ 1° (V) / 34.4° $\pm$ 1° (D)

Optical Distortion: : (-2.7 $\pm$ 1)%

Relative Illumination: (70 $\pm$ 5)%

IR Filter: 650 nm IR cut filter

Mount: M17

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Lens EFL: 6.6 mm $\pm$ 3%

Aperture, F/#: 1.6 $\pm$ 5%

Field of View (FOV): 70° $\pm$ 1.5° (H) / 39.3° $\pm$ 1.5° (V) / 80.1° $\pm$ 1.5° (D)

Optical Distortion: (-16.7 $\pm$ 2)%

Relative Illumination: (61 $\pm$ 5)%

IR Filter: 650 nm IR cut filter

Mount: M16

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Lens EFL: 4.67 mm $\pm$ 3%

Aperture, F/#: 1.8 $\pm$ 5%

Field of View (FOV): 100.5° $\pm$ 2° (H) / 55.9° $\pm$ 2° (V) / 116° $\pm$ 2° (D)

Optical Distortion: (-38.5 $\pm$ 2)%

Relative Illumination: (67 $\pm$ 5)%

IR Filter: 700 nm IR cut filter

Mount: M17

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