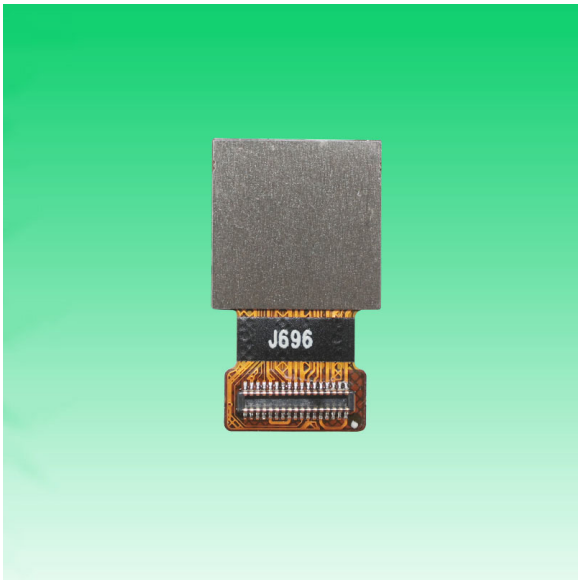
KLT-5067-OV64B V4.C

64MP OmniVision OV64B MIPI Interface Auto Focus Camera Module

Front View



Back View

Specifications

Camera Module No.	KLT-5067-OV64B V4.C
Resolution	64MP
Image Sensor	OV64B
Sensor Type	1/2"
Pixel Size	0.702 um x 0.702 um
EFL	3.57 mm
F.NO	2.90
Pixel	9248 x 6944
View Angle	120.0°(DFOV) 96.0°(HFOV) 73.8°(VFOV)
Lens Dimensions	10.90 x 10.90 x 6.86 mm
Module Size	18.61 x 10.90 mm
Module Type	Auto Focus
Interface	MIPI
Auto Focus VCM Driver IC	DW9800W
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +85°C
Mating Connector	BM20B(0.8)-30DS-0.4V(51)

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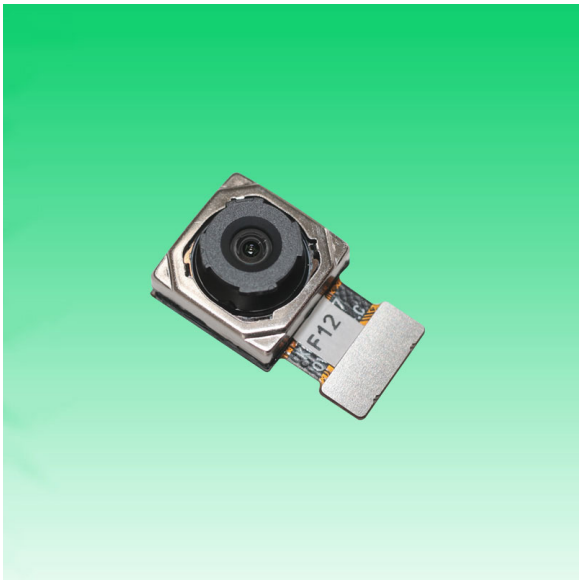
KLT-5067-OV64B V4.C

64MP OmniVision OV64B MIPI Interface Auto Focus Camera Module



Top View

Side View

Bottom View

Mating Connector

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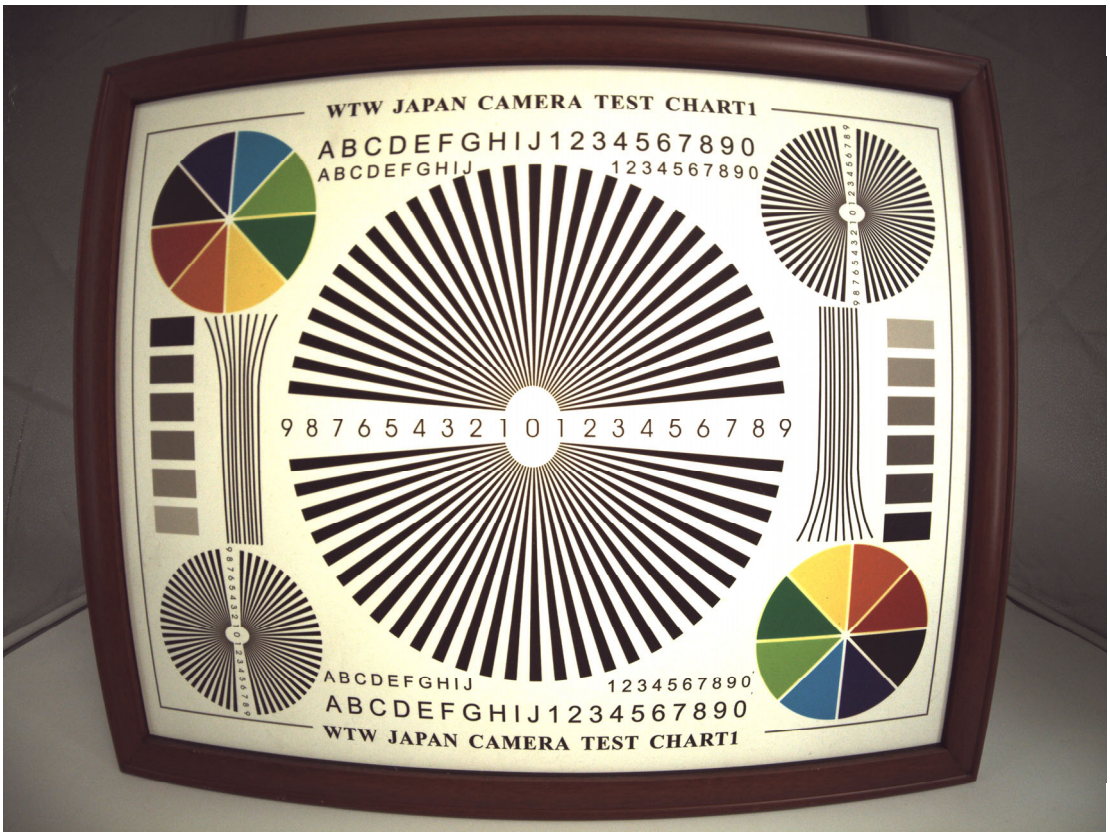

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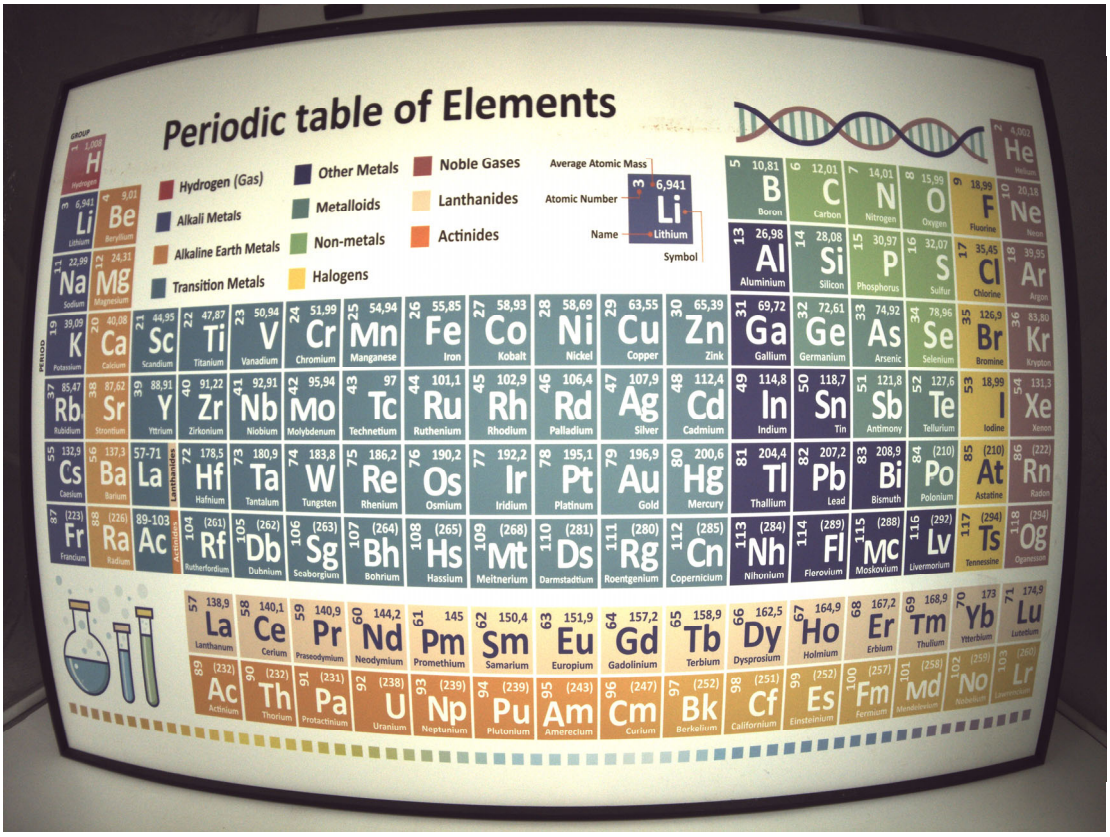

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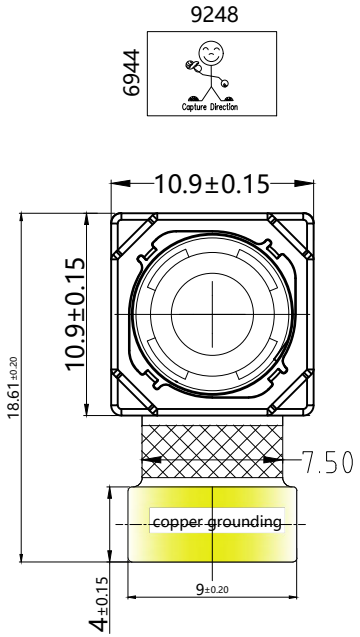
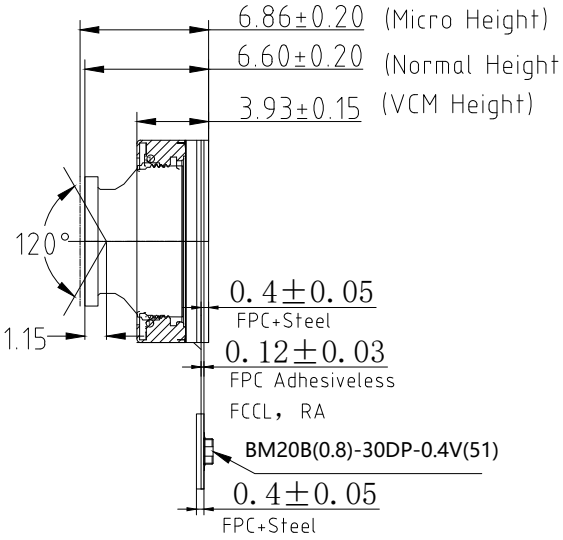
RoHS	
0	SIGNAL
1	NC
2	FSIN
3	AVDD 2.8V
4	GND
5	XCLR
6	GND
7	MCN1C
8	D1P2A
9	GND
10	D2N0B
11	D0P0C
12	GND
13	D1N2B
14	D3P2C
15	NC
16	GND
17	MCP1B
18	D0N1A
19	GND
20	D2P0A
21	MDP2
22	GND
23	MCLK
24	GND
25	SCL
26	SDA
27	VSYNC
28	DOVDD 1.8V
29	GND
30	DVDD 1.1V

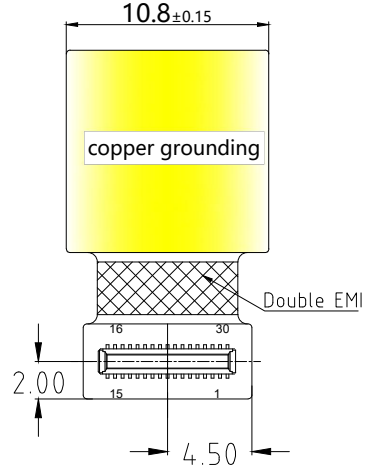
Version	Information
V1.0	First Version



TOP VIEW



SIDE VIEW



BOTTOM VIEW

NOTE:
1.Sensor I2C slave address: 0x20(W);021(R).
2.Driver IC:DW9800W ; I2C:0x18(W);0x19(R).

Parameter:

1、Sensor specification:

Image Sensor: OV64B40-GA5A
Pixel: 0.702um×0.702um
Lens Type: 1/2
Important Voltage Description: DVDD1.1V (external power supply);

2、Lens specification:

FOV: 120°(D);96°(H);73.8°(V)
F/NO.: 2.9
TV distortion: <-14.12%
Focal length: 3.57mm
Composition: 6P+IR FILTER
IR Cut Coating: 650nm±10nm@50%

Kai Lap Technologies Group Ltd

Designed By	Kevin	Model Name:	KLT-5067-OV64B V4.C
Checked By	Jacky	Projection Type: Third Angle	Unit: mm / Date: 11/26/2025 / Scale: 1:1 / Sheet: 1 of 1 / Version: 1/0

OV64B 64-megapixel product brief

64 Megapixel, 0.7 Micron, 1/2" Optical Format Image Sensor for Ultra-Thin, High-End Smartphone Cameras

lead free

available in a lead-free package

OmniVision's OV64B is a 64 megapixel (MP) image sensor with a 0.7 micron pixel size and a 1/2" optical format, enabling high-end and high-mainstream mobile designers to create the thinnest possible smartphones with high resolution 64MP cameras. Built on OmniVision's PureCel®Plus stacked die technology, this sensor provides leading-edge still image captures and exceptional 4K video recordings with electronic image stabilization (EIS), as well as 8K video at 30 frames per second (fps). These features make the OV64B ideal for the main, wide, ultra-wide or telephoto rear-facing camera in multicamera configurations.

This image sensor supports 3-exposure, staggered HDR timing for up to 16MP video modes. It integrates a 4-cell color filter array and on-chip hardware re-mosaic, which provides high quality, 64MP Bayer output in real time. In low light conditions, this sensor can use near-pixel binning to output a 16MP image with 4x the sensitivity, offering 1.4 micron equivalent performance for previews and still captures. In either case, the OV64B can consistently capture the best quality images, while enabling 2x digital crop zoom with 16MP resolution and fast mode switch.

The OV64B offers type-2, 2x2 microlens phase detection autofocus (ML-PDAF) to boost autofocus accuracy, especially in low light. It also provides a CPHY interface for greater throughput using fewer pins, and supports slow motion video for 1080p at 240 fps and 720p at 480 fps. Other output formats include 64MP at 15 fps, 8K video at 30 fps, 16MP captures with 4-cell binning at 30 fps, 4K video at 60 fps and 4K video with EIS at 30 fps.

Find out more at www.ovt.com.

OmniVision

OV64B

Applications

- Smart Phones
- Video Conferencing
- PC Multimedia

Product Features

- automatic black level calibration (ABLC)
- programmable controls for:
  - frame rate
  - mirror and flip
  - binning
  - cropping
  - windowing
- support for dynamic DPC
- supports output formats:
  - 10-bit RGB 4C non-HDR
  - 10-bit RGB Bayer non-HDR
- supports horizontal and vertical subsampling
- supports typical images sizes:
  - 9248 x 6944
  - 7680 x 4320
  - 4624 x 4320
  - 3840 x 2160
  - 1920 x 1080
  - 1280 x 720
- standard serial SCCB interface
- up to 4-lane MIPI TX interface with speed up to 3.0 Gbps/lane
- 2/3 trio CPHY interface, up to 2.45 Gsps/trio
- supports type 2 2x2 ML PDAF
- 4-cell support:
  - 4-cell binning
  - 4-cell full
- HDR support:
  stagger HDR 2/3 exposure timing
- on-chip 4-cell to Bayer converter
- three on-chip phase lock loops (PLLs)
- programmable I/O drive capability
- built-in temperature sensor
- 0.702 µm pixel

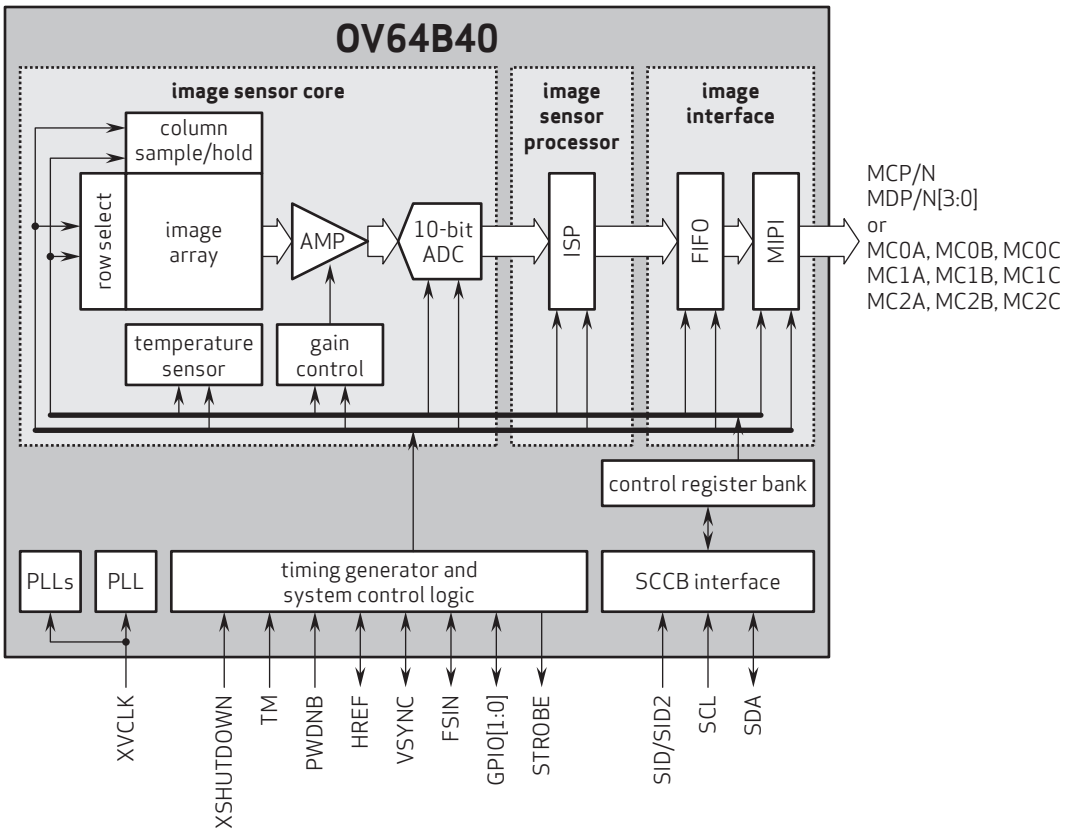
Ordering Information

- **OV64B40-GA5A-002A**
  (color, chip probing, 150 µm backgrinding, reconstructed wafer with good die)

Technical Specifications

- **active array size:** 9248 x 6944
- **maximum image transfer rate:**
  - **9248 x 6944:** 15 fps
- **power supply:**
  - **core:** 1.1V
  - **analog:** 2.8V
  - **I/O:** 1.8V
- **power requirements:**
  - **active:** 647 mW (64MP @ 15 fps)
  - **standby:** <10 µA
- **temperature range:**
  - **operating:** -30°C to +85°C junction temperature
  - **stable:** 0°C to +60°C junction temperature
- **output formats:** 10-bit RGB RAW
- **lens size:** 1/2"
- **lens chief ray angle:** 34.55° non-linear
- **scan mode:** progressive
- **pixel size:** 0.702 µm x 0.702 µm
- **image area:**
  6514.56 µm x 4897.152 µm

Functional Block Diagram



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Version 1.2, June 2021

RoHS COMPLIANT H F BFRs/CFRs/PVC-Free

DW9800W

- H-Bridge Driver IC

Ver. 0.1
2015-04-03

1. General Description

The DW9800W is designed for linear control of bi-direction voice coil motors(Bi-VCM). The DW9800W is a single 10-bit DAC with ±100mA output current sinking capability. The DW9800W has Smart Actuator Control (SAC^{TM}) mode. SAC^{TM} mode can be applied to minimize the mechanical vibration. The SAC^{TM} mode has improved the actuator's settling time and wide tolerance coverage compared with conventional Linear Slope Control (LSC) mode. The SAC^{TM} is registered trademark of DONGWOON ANATECH. The SAC^{TM} technologies belong to DONGWOON ANATECH's own knowhow and patents.

The DW9800W also features an internal reference and operates from a single 2.3 V to 4.8V supply. The DAC is controlled via a I2C serial interface that operates at cloak rate up to 400kHz. The DW9800W has a Power On Reset (POR) circuit and power down (PD) mode. POR circuit gets to operate when VDD (supply voltage) turns on. The output current keeps 0mA until valid register value takes place. The DW9800W offers to the user the choice of PD mode that insures the minimal power (Max. 2uA) is consumed in shutdown mode. The DW9800W is protected by thermal shutdown (TSD) circuit for thermal attack.

The DW9800W is designed for auto focus, optical zoom for mobile camera, digital still camera, camcorders, web camera and action camera applications.

should be 4.8V

■ Features

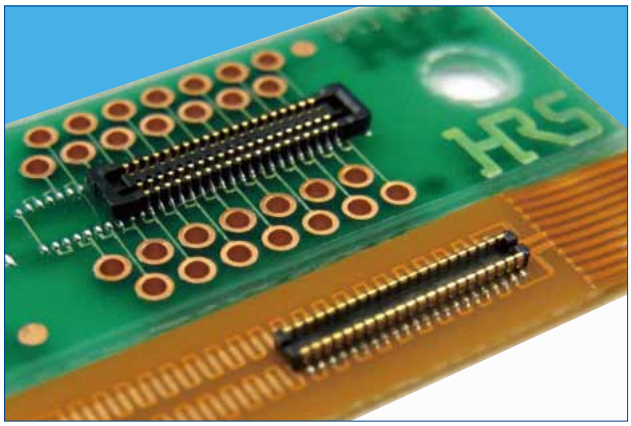
- 10-bit resolution current sinking of ±100mA
- Smart Actuator Control (SAC^{TM}) mode
- Supply voltage range (V_{DD}): 2.3V to 3.3V
- Fast mode plus I2C interface compatible (1.8V interface available)
- Power On Reset (POR)
- Power Down (PD) mode
- Thermal Shutdown (TSD)
- Package dimension : 0.73mm X 1.13mm X 0.31mm (6-pin WLCSP)

■ Applications

Mobile camera
Digital still camera
Camcorder
Web camera
Nano actuator

0.4mm Pitch, 0.6 and 0.8mm Height, Board-to-Board and Board-to-FPC Connectors

BM20 Series



■Features

1. High density mounting capability

A space saving design that keeps the connector compact, but still maintains an adequate vacuum area (no less than 0.7mm wide).
Depth DS : 2.3mm DP : 1.78mm

2. Reliable contact performance

Even though the mated height is low, the BM20 still leads it class in maximum effective mating lengths for each mating height.
<Effective Mating Length>
Height 0.8mm : 0.2mm
Height 0.6mm : 0.15mm
The addition of the two point contact system adds more reliability to the contacts.

3. No restrictions to PCB pattern design for the 0.8 mm height connector *1

This series utilizes a thin wall to insulate the bottom surface of the connector and maintains an effective mating length of 0.2mm. This removes any restriction for PCB pattern layout design under the connector.
Note *1: There are some restrictions for the 0.6 mm height style.

4. Enhanced mating operations

The structure uses guide ribs to ease the mating process and offers a self alignment range of up to 0.3mm. A clear tactile click is used as an indicator to the user that the mating process was completed.

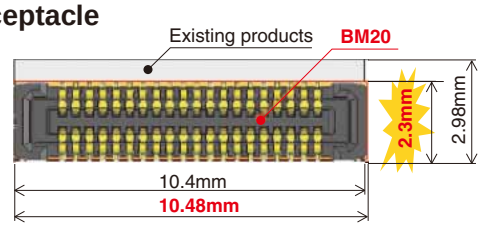
5. Drop and shock resistant structure

Dimples were designed into the contacts to increase their retention force and to absorb the shock delivered from a drop or other impact.

6. Debris resisting design

When mated, the connector's design covers the contacts which help to keep dust and other debris away from the contacts. The SMT leads are kept very close to the connector housing which also helps to prevent shorts caused by debris on the exposed contacts

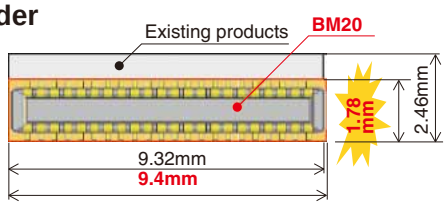
■Receptacle



A 22.3% reduction in size!

Existing products	BM20
2.98 × 10.4 =About 31.0mm²	2.3 × 10.48 = About 24.1mm²

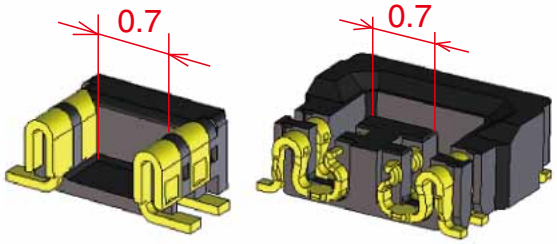
■Header



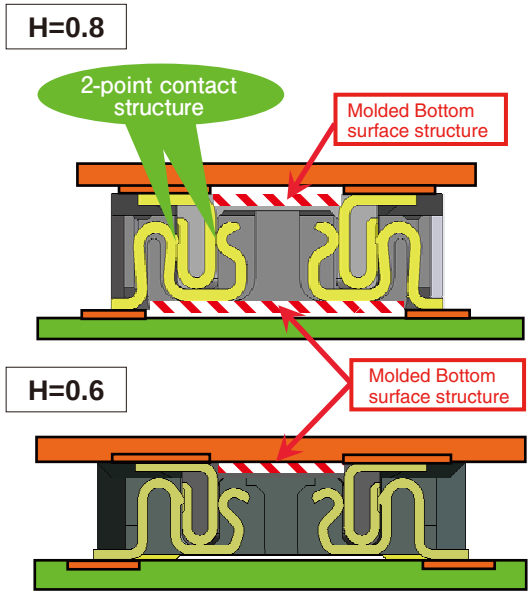
Board occupied area A 27.1% reduction in size!

Existing products	BM20
2.46 × 9.32 = About 22.9mm²	1.78 × 9.4 = About 16.7mm²

Vaccum pick-up



Mating diagram (cross section)



■Product Specifications

Ratings	Rated Current	0.3A	Operating Temperature Range	- 35 ～ 85°C (Note 1)	Storage Temperature Range	- 10 ～ 60°C (Note 2)
	Rated Voltage	AC, DC 30V	Operating Humidity Range	20 ～ 80%	Storage Humidity Range	40 ～ 70% (Note 2)

Items	Specifications	Conditions
1. Insulation Resistance	Minimum of 50MΩ	Measured with DC 100V
2. Withstanding Voltage	No flashover or breakdown	Apply AC 100V for 1 minute
3. Contact Resistance	Maximum of 100mΩ	Measured with AC 20 mV, 1 kHz and 1 mA
4. Vibration Resistance	No electrical discontinuity of 1μs or greater	Frequency 10-55 Hz, half amplitude 0.75mm, 3 directions for 2 hours
5. Humidity Resistance	Contact resistance Maximum of 100mΩ Insulation resistance Minimum of 25mΩ	Left at temperature 40±2℃, humidity 90 to 95%, 96 hours
6. Temperature Cycles	Contact resistance Maximum of 100mΩ Insulation resistance Minimum of 50mΩ	(-55°C : 30 minutes → 5～35℃ : 10 minutes → 85°C : 30 minutes → 5～35℃ : 10 minutes) 5 cycles
7. Durability	Contact Resistance: maximum of 100mΩ	10 mating cycles
8. Soldering Heat Resistance	Should be no melting of resin parts that affects its performance	Reflow : according to the Recommended Solder Profile Hand solder : Soldering iron temperature 350°C, no more than 3 seconds.

Note 1 : Includes temperature rise caused by current flow.

Note 2 : The term "storage" here refers to products stored for a long period prior to board mounting and use. The operating temperature and humidity range covers the non-energized condition of connectors after board mounting and the temporary storage conditions during transportation, etc.

■Materials

Product	Component	Materials	Finish	UL Regulation
Receptacle	Insulator	LCP	Black	UL94V-0
Header	Contact	Phosphorous bronze	Gold plating	————

■Product Number Structure

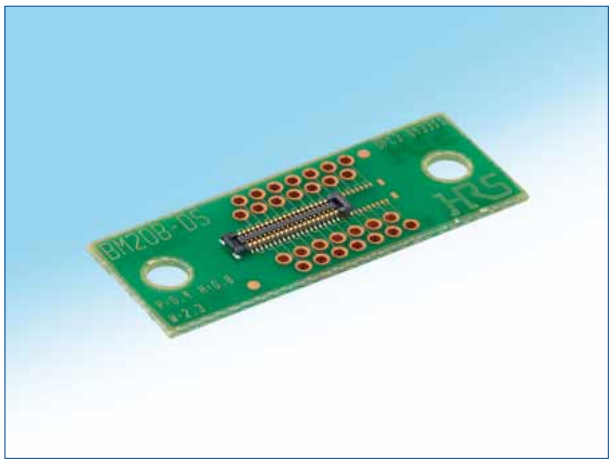
Refer to this page when determining product specifications by model types. Please place orders with part numbers listed in this catalog. The characteristics and specifications of the product described in this catalog are reference values. Please make sure to check the latest delivery specifications at the time of product use.

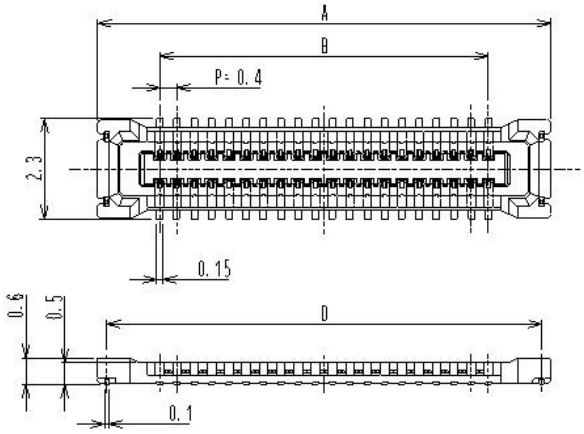
●Receptacle/Header

BM ❶ 20 ❷ # ❸ (**) ❹ - * ❺ DS ❻ - 0.4 ❼ V ❽ (51) ❾

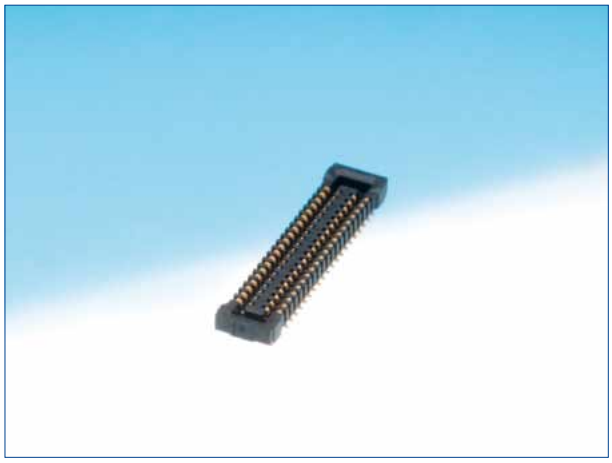
❶ Series Name : BM	❻ Connector Type DS : Double row receptacle DP : Double row header
❷ Series No. : 20	
❸ Shape Symbols B : With reinforcing metal fitting	❼ Contact Pitch : 0.4mm
❹ Stack height : 0.6mm, 0.8mm	❽ Terminal Shape V : Vertical SMT
❺ No. of Contacts : Please refer to page 3 and after.	❾ Packaging (51) : Embossed tape package (8,000 pieces per reel)

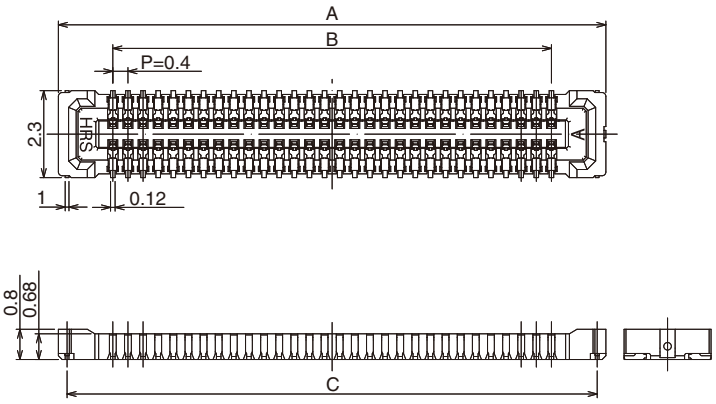
■H=0.6mm receptacle



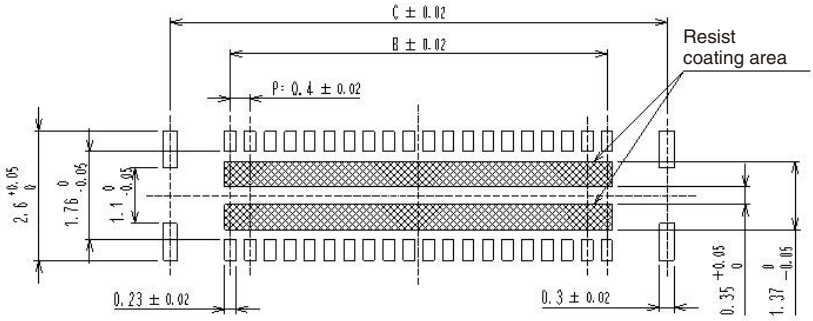


■H=0.8mm receptacle

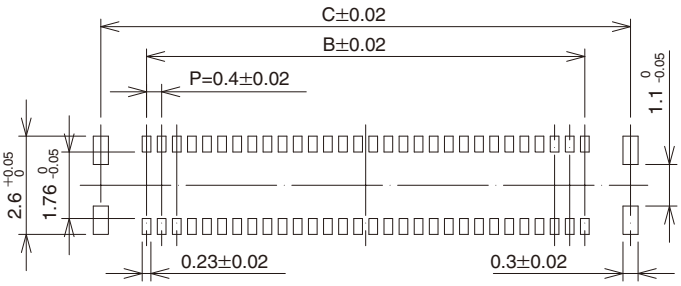




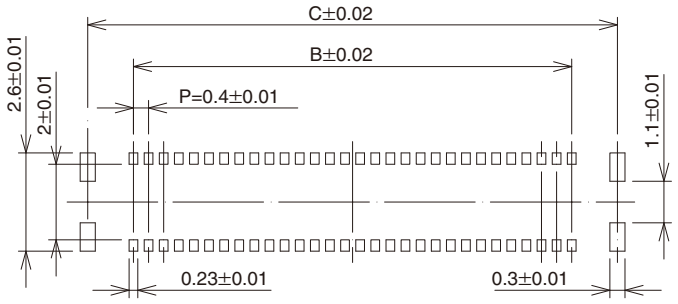
◆Recommended PCB layout【H= 0.6mm】



◆Recommended PCB layout【H= 0.8mm】



◆Recommended metal mask size (Mask thickness 100 µm)【0.6 mm and 0.8 mm common】



Unit : mm

Part No.	HRS No.	No. of Contacts	A	B	C	D
BM20B(0.6)-10DS-0.4V(51)	0684-9308-8 51	10	4.48	1.6	4.02	4.06
BM20B(0.6)-20DS-0.4V(51)	0684-9309-0 51	20	6.48	3.6	6.02	6.06
BM20B(0.6)-24DS-0.4V(51)	0684-9310-0 51	24	7.28	4.4	6.82	6.86
BM20B(0.6)-30DS-0.4V(51)	0684-9311-2 51	30	8.48	5.6	8.02	8.06
BM20B(0.6)-34DS-0.4V(51)	0684-9312-5 51	34	9.28	6.4	8.82	8.86
BM20B(0.6)-40DS-0.4V(51)	0684-9313-8 51	40	10.48	7.6	10.02	10.06
BM20B(0.6)-50DS-0.4V(51)	0684-9314-0 51	50	12.48	9.6	12.02	12.06
BM20B(0.6)-60DS-0.4V(51)	0684-9315-3 51	60	14.48	11.6	14.02	14.06

Part No.	HRS No.	No. of Contacts	A	B	C
BM20B(0.8)-10DS-0.4V(51)	0684-9008-4 51	10	4.48	1.6	4.02
BM20B(0.8)-16DS-0.4V(51)	0684-9041-0 51	16	5.68	2.8	5.22
BM20B(0.8)-20DS-0.4V(51)	0684-9009-7 51	20	6.48	3.6	6.02
BM20B(0.8)-24DS-0.4V(51)	0684-9010-6 51	24	7.28	4.4	6.82
BM20B(0.8)-30DS-0.4V(51)	0684-9011-9 51	30	8.48	5.6	8.02
BM20B(0.8)-34DS-0.4V(51)	0684-9020-0 51	34	9.28	6.4	8.82
BM20B(0.8)-40DS-0.4V(51)	0684-9012-1 51	40	10.48	7.6	10.02
BM20B(0.8)-50DS-0.4V(51)	0684-9013-4 51	50	12.48	9.6	12.02

Note 1 : This product is sold by full reel quantities of 8,000 pieces per reel. Please place orders in full reel quantities.
Note 2 : This connector is NOT polarized.

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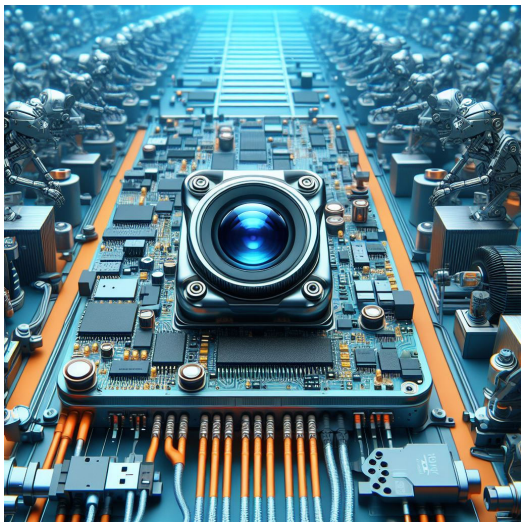
Cameras Applications

Automotive Driver Pilot

Live Streaming

Video Conference

Eye Tracker Biometric Detection



Machine Vision

Agricultural Monitor

Night Vision Security

Drone and Sports Eagle Eyes

Interactive Pet Camera

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Cameras Applications

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Camera Module Pinout Definition Reference Chart

OmniVision Sony Samsung On-Semi Aptina Himax GalaxyCore PixArt SmartSens Sensors	
Pin Signal	**Description**
DGND GND	ground for digital circuit
AGND	ground for analog circuit
PCLK DCK	DVP PCLK output
XCLR PWDN XSHUTDOWN STANDBY	power down active high with internal pull-down resistor
MCLK XVCLK XCLK INCK	system input clock
RESET RST	reset active low with internal pull-up resistor
NC NULL	no connect
SDA SIO_D SIOD	SCCB data
SCL SIO_C SIOC	SCCB input clock
VSYNC XVS FSYNC	DVP VSYNC output
HREF XHS	DVP HREF output
DOVDD	power for I/O circuit
AFVDD	power for VCM circuit
AVDD	power for analog circuit
DVDD	power for digital circuit
STROBE FSTROBE	strobe output
FSIN	synchronize the VSYNC signal from the other sensor
SID	SCCB last bit ID input
ILPWM	mechanical shutter output indicator
FREX	frame exposure / mechanical shutter
GPIO	general purpose inputs
SLASEL	I2C slave address select
AFEN	CEN chip enable active high on VCM driver IC
MIPI Interface	
MDN0 DN0 MD0N DATA_N DMO1N	MIPI 1st data lane negative output
MDP0 DP0 MD0P DATA_P DMO1P	MIPI 1st data lane positive output
MDN1 DN1 MD1N DATA2_N DMO2N	MIPI 2nd data lane negative output
MDP1 DP1 MD1P DATA2_P DMO2P	MIPI 2nd data lane positive output
MDN2 DN2 MD2N DATA3_N DMO3N	MIPI 3rd data lane negative output
MDP2 DP2 MD2P DATA3_P DMO3P	MIPI 3rd data lane positive output
MDN3 DN3 MD3N DATA4_N DMO4N	MIPI 4th data lane negative output
MDP3 DP3 MD3P DATA4_P DMO4P	MIPI 4th data lane positive output
MCN CLKN CLK_N DCKN	MIPI clock negative output
MCP CLKP MCP CLK_P DCKN	MIPI clock positive output
DVP Parallel Interface	
D0 DO0 Y0	DVP data output port 0
D1 DO1 Y1	DVP data output port 1
D2 DO2 Y2	DVP data output port 2
D3 DO3 Y3	DVP data output port 3
D4 DO4 Y4	DVP data output port 4
D5 DO5 Y5	DVP data output port 5
D6 DO6 Y6	DVP data output port 6
D7 DO7 Y7	DVP data output port 7
D8 DO8 Y8	DVP data output port 8
D9 DO9 Y9	DVP data output port 9
D10 DO10 Y10	DVP data output port 10
D11 DO11 Y11	DVP data output port 11

Camera Reliability Test

Reliability Inspection Item			Testing Method	Acceptance Criteria
Category		Item		
Environmental	Storage Temperature	High 60°C 96 Hours	Temperature Chamber	No Abnormal Situation
		Low -20°C 96 Hours	Temperature Chamber	No Abnormal Situation
	Operation Temperature	High 60°C 24 Hours	Temperature Chamber	No Abnormal Situation
		Low -20°C 24 Hours	Temperature Chamber	No Abnormal Situation
	Humidity	60°C 80% 24 Hours	Temperature Chamber	No Abnormal Situation
	Thermal Shock	High 60°C 0.5 Hours Low -20°C 0.5 Hours Cycling in 24 Hours	Temperature Chamber	No Abnormal Situation
Physical	Drop Test (Free Falling)	Without Package 60cm	10 Times on Wood Floor	Electrically Functional
		With Package 60cm	10 Times on Wood Floor	Electrically Functional
	Vibration Test	50Hz X-Axis 2mm 30min	Vibration Table	Electrically Functional
		50Hz Y-Axis 2mm 30min	Vibration Table	Electrically Functional
		50Hz Z-Axis 2mm 30min	Vibration Table	Electrically Functional
	Cable Tensile Strength Test	Loading Weight 4 kg 60 Seconds Cycling in 24 Hours	Tensile Testing Machine	Electrically Functional
Electrical	ESD Test	Contact Discharge 2 KV	ESD Testing Machine	Electrically Functional
		Air Discharge 4 KV	ESD Testing Machine	Electrically Functional
	Aging Test	On/Off 30 Seconds Cycling in 24 Hours	Power Switch	Electrically Functional
	USB Connector	On/Off 250 Times	Plug and Unplug	Electrically Functional




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Camera Inspection Standard

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Inspection Item			Inspection Method	Standard of Inspection
Category		Item		
Appearance	FPC/ PCB	Color	The Naked Eye	Major Difference is Not Allowed.
		Be Torn/Chopped	The Naked Eye	Copper Crack Exposure is Not Allowed.
		Marking	The Naked Eye	Clear, Recognizable (Within 30cm Distance)
	Holder	Scratches	The Naked Eye	The Inside Crack Exposure is Not Allowed
		Gap	The Naked Eye	Meet the Height Standard
		Screw	The Naked Eye	Make Sure Screws Are Presented (If Any)
		Damage	The Naked Eye	The Inside Crack Exposure is Not Allowed
	Lens	Scratch	The Naked Eye	No Effect On Resolution Standard
		Contamination	The Naked Eye	No Effect On Resolution Standard
		Oil Film	The Naked Eye	No Effect On Resolution Standard
		Cover Tape	The Naked Eye	No Issue On Appearance.
Function	Image	No Communication	Test Board	Not Allowed
		Bright Pixel	Black Board	Not Allowed In the Image Center
		Dark Pixel	White board	Not Allowed In the Image Center
		Blurry	The Naked Eye	Not Allowed
		No Image	The Naked Eye	Not Allowed
		Vertical Line	The Naked Eye	Not Allowed
		Horizontal Line	The Naked Eye	Not Allowed
		Light Leakage	The Naked Eye	Not Allowed
		Blinking Image	The Naked Eye	Not Allowed
		Bruise	Inspection Jig	Not Allowed
		Resolution	Chart	Follows Outgoing Inspection Chart Standard
		Color	The Naked Eye	No Issue
		Noise	The Naked Eye	Not Allowed
		Corner Dark	The Naked Eye	Less Than 100px By 100px
		Color Resolution	The Naked Eye	No Issue
Dimension		Height	The Naked Eye	Follows Approval Data Sheet
		Width	The Naked Eye	Follows Approval Data Sheet
		Length	The Naked Eye	Follows Approval Data Sheet
		Overall	The Naked Eye	Follows Approval Data Sheet

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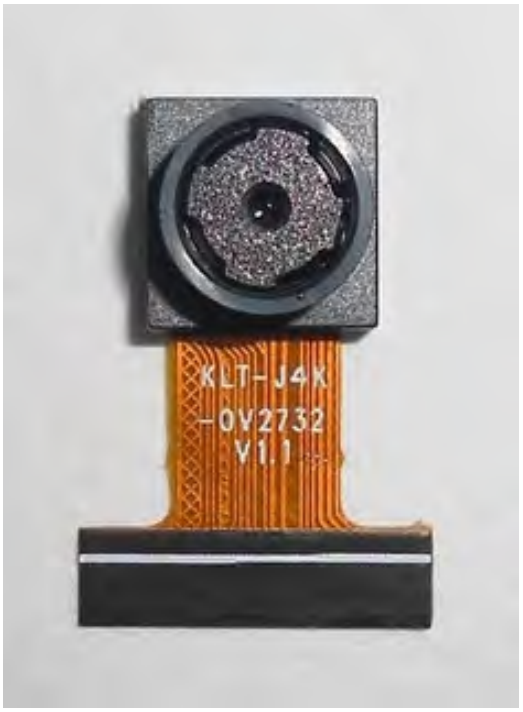
KLT Package Solutions

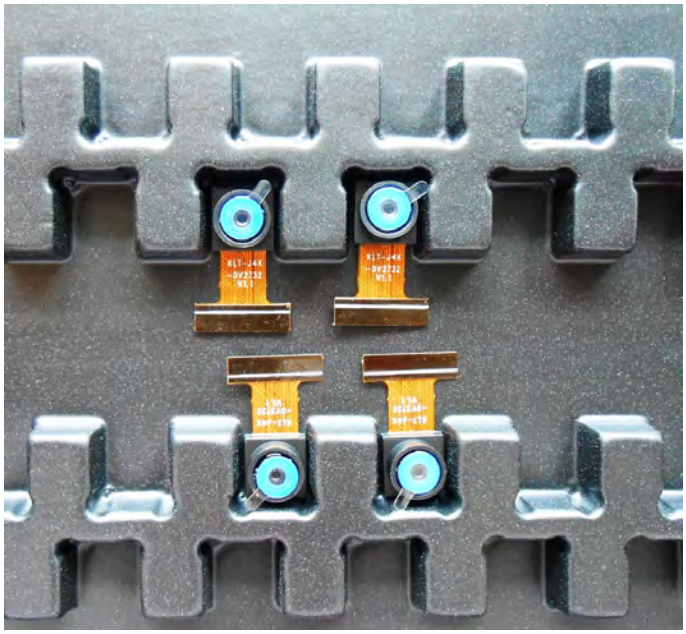
KLT Camera Module



Complete with Lens Protection Film

Tray with Grid and Space

Place Cameras on the Tray



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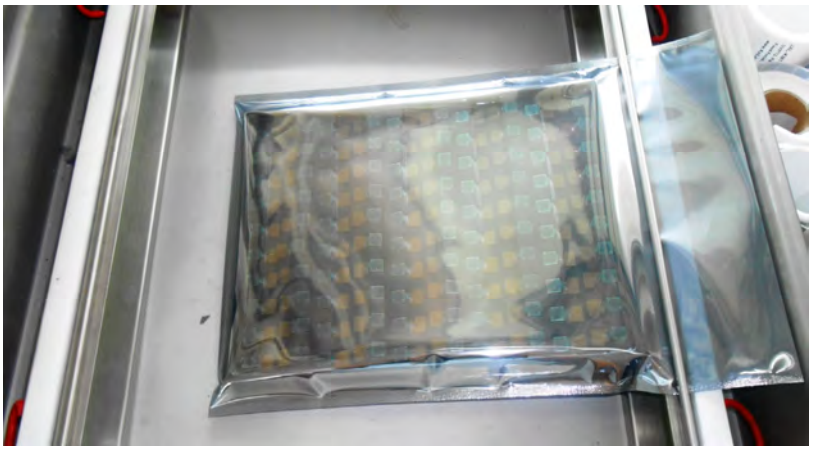
Camera Modules Package Solution

Full Tray of Cameras

Cover Tray with Lid

Put Tray into Anti-Static Bag

Vacuum the Anti-Static Bag



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Camera Modules Package Solution

Sealed Vacuum Bag with Labels
1. Model and Description 2. Quantity 3. Shipping Date 4. Caution

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Large Order Package Solution

Place Foam Sheets Between Trays

Foam Sheets are Slightly Larger than Trays

Place Foam Sheets and Trays into Box

Foam Sheets are Tightly Fitting Box

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Small Order Package Solution

Place Foam Sheets and Trays into Small Box

Foam Sheets are Nicely Fitting the Small Box

Package in Small Box for Shipment

Place Small Boxes into Larger Box

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Carbon Box Package Solution

Seal the Carbon Box

Final Package Labelled Box

Carbon Box Ready for Shipment
1. Delivery Address and Phone No. 2. Box No. and Ship Date 3. Fragile Caution

Sample Order Package Solution

Place Sample into Small Anti-Static Bag

Place Connectors into Small Ant-Static Bag

Sample Labels on the Small Bag
1. Camera Module or Connector Model 2. Shipping Date and Quantity 3. Caution

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Connectors Large Order Package Solution

Connectors in a Wheel

Label Connectors in the Wheel

The Wheel is Perfectly Fitting the Box

Connectors Box Ready for Shipment

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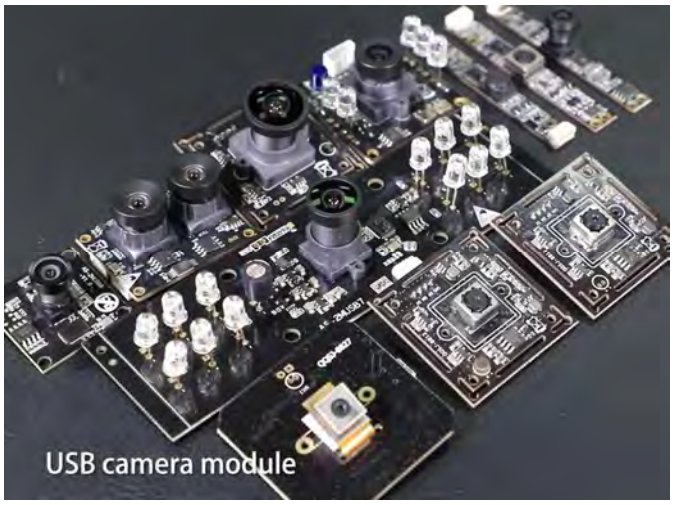
Company Kai Lap Technologies (KLT)

Kai Lap Technologies Group Limited. (KLT) was established in 2009, a next-generation technology driven manufacturer specialized in research, design, and produce of audio and video products. KLT is occupying 20,000 square feet automated plants with 100 employees of annual throughput 30,000,000 units cameras.

KLT provides OEM, ODM design, contract manufacturing, and builds the camera products. You may provide the requirements to us, even with a hand draft, our sales and engineering work together to meet your needs. We consider ourselves your last-term partner in developing practical and innovative solutions.

Our team covers everything from initial concept development to mass produced product. KLT specializes in customized camera design, raw material, electronic engineering, firmware/software development, product testing, and packing design. Our experienced strategic supply systems offer a robust and dependable manufacturing capacity for orders of various sizes.



Limited Warranty

KLT provides the following limited warranty if you purchased the Product(s) directly from KLT company or from KLT's website, www.KaiLapTech.com. Product(s) purchased from other sellers or sources are not covered by this Limited Warranty. KLT guarantees that the Product(s) will be free from defects in materials and workmanship under normal use for a period of one (1) year from the date you receive the product ("Warranty Period").

For all Product(s) that contain or develop material defects in materials or workmanship during the Warranty Period, KLT will, at its sole option, either: (i) repair the Product(s); (ii) replace the Product(s) with a new or refurbished Product(s) (replacement Product(s) being of identical model or functional equivalent); or (iii) provide you a refund of the price you paid for the Product(s).

This Limited Warranty of KLT is solely limited to repair and/or replacement on the terms set forth above. KLT is not reliable or responsible for any subsequential events.

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KLT Strength

Powerful Factory

Professional Service

Promised Delivery

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