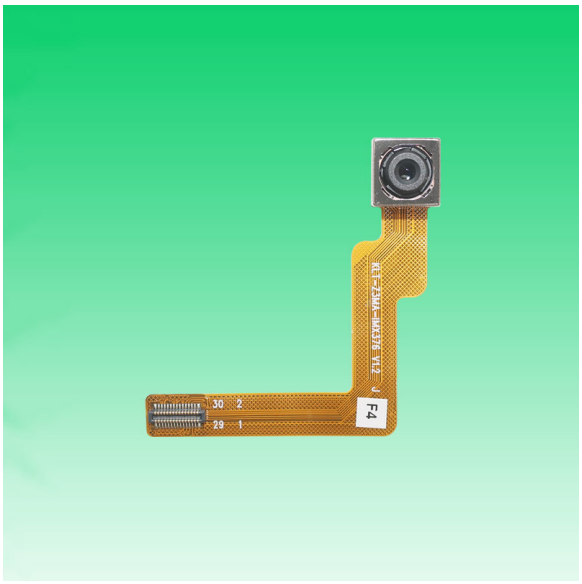
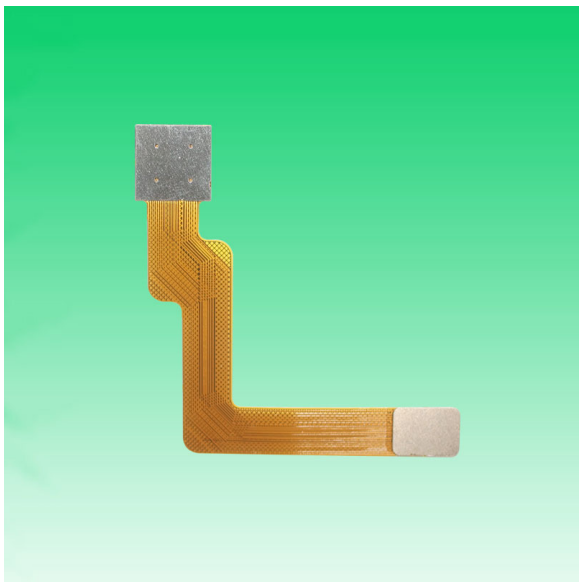
KLT-Z3MA-IMX376 V1.2

20MP Sony IMX376 MIPI Interface Auto Focus Camera Module



Front View



Back View

Specifications

Camera Module No.	KLT-Z3MA-IMX376 V1.2
Resolution	20 MP
Image Sensor	IMX376
Sensor Type	1/2.78"
Pixel Size	1.00 um x 1.00 um
EFL	3.95 mm
F.NO	1.8
Pixel	5216 x 3896
View Angle	78.0°(DFOV) 65.9°(HFOV) 52.0°(VFOV)
Lens Dimensions	8.80 x 8.80 x 5.65 mm
Module Size	39.28 x 38.90 mm
Module Type	Auto Focus
Interface	MIPI
Auto Focus VCM Driver IC	DW9763
Lens Type	650nm IR Cut
Operating Temperature	-20°C to +60°C
Mating Connector	BBR43-30KB533

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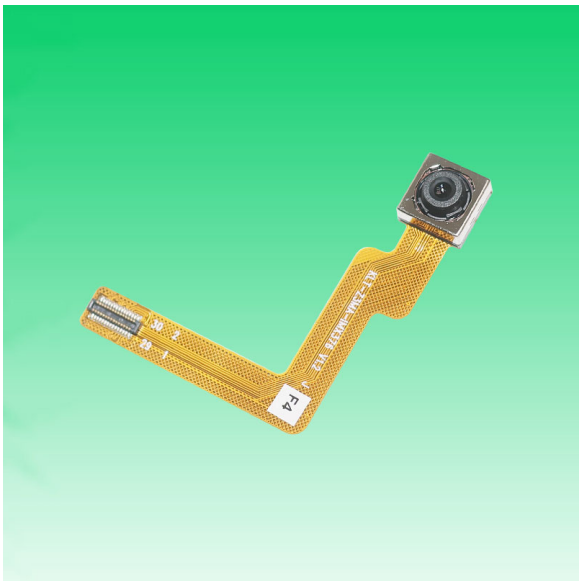
KLT-Z3MA-IMX376 V1.2

20MP Sony IMX376 MIPI Interface Auto Focus Camera Module

Top View

Side View



Bottom View

Mating Connector

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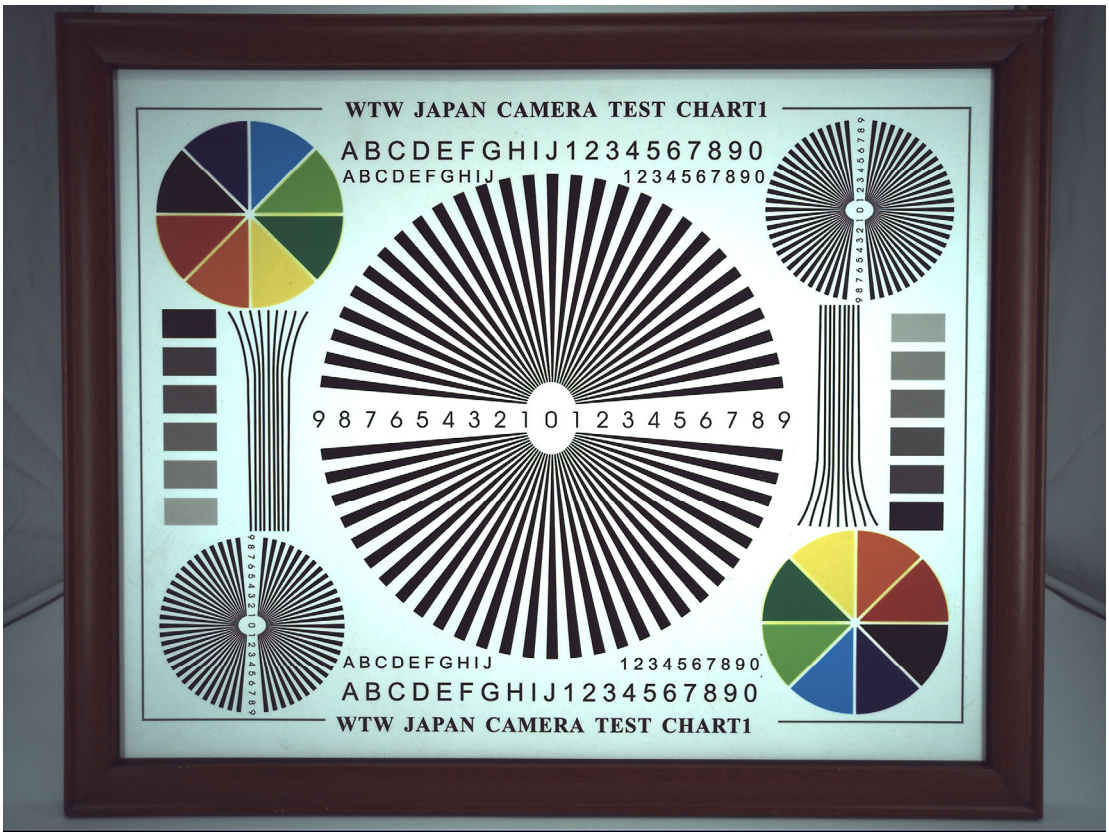

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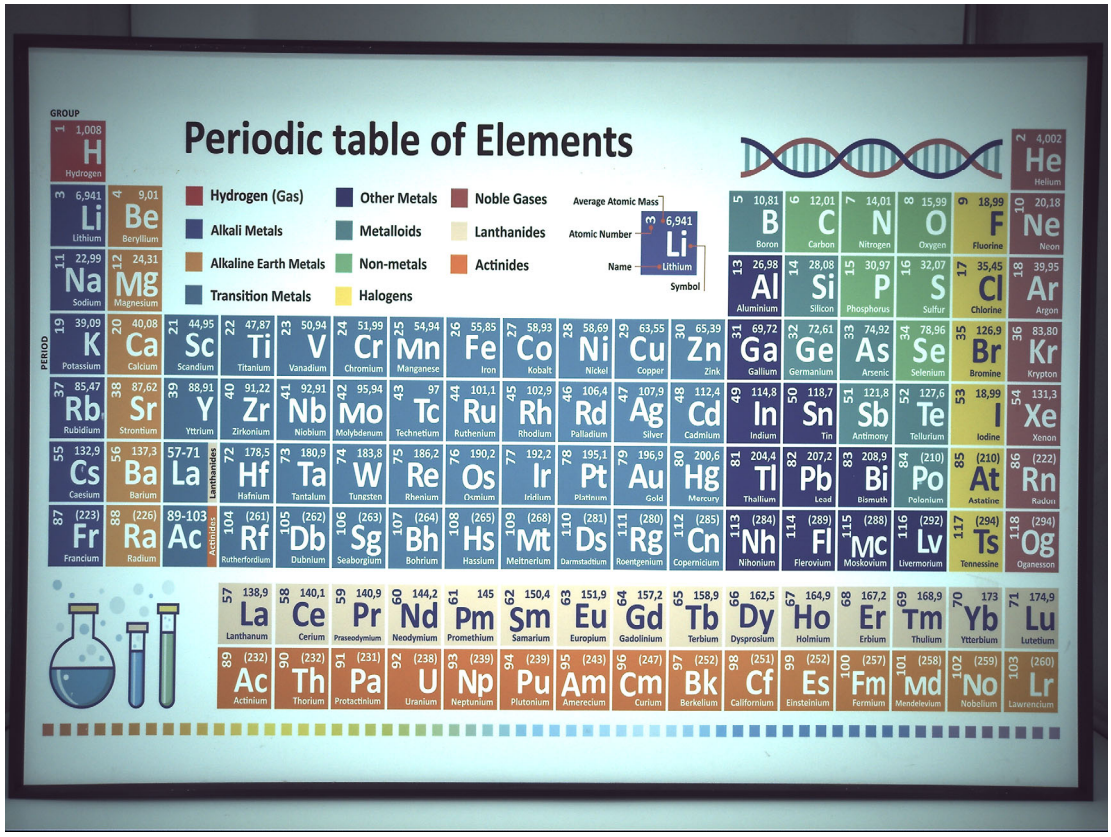

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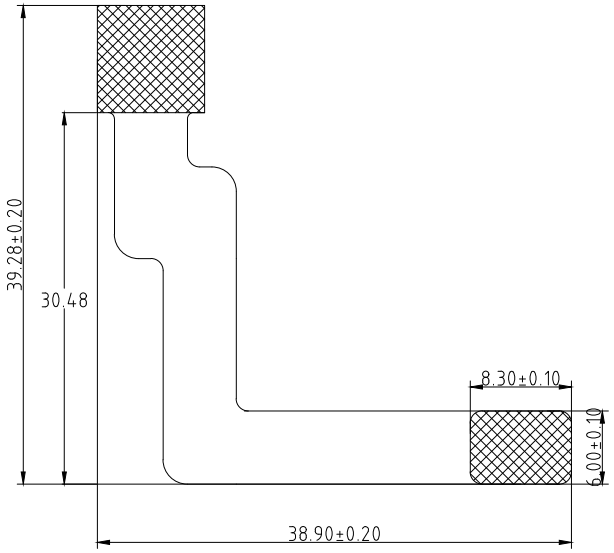
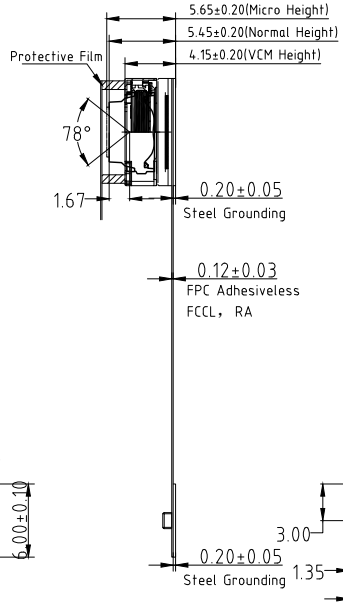
RoHS	
0	SIGNAL
1	GND
2	GND
3	GND
4	GND
5	AFVDD 2.8V
6	AFEN
7	SDA
8	DOVDD1.8V
9	SCL
10	DVDD 1.05V
11	GND
12	XSHUTDOWN
13	MCN
14	NC
15	MCP
16	GND
17	MD0N
18	MCLK
19	MD0P
20	GND
21	MD1N
22	NC
23	MD1P
24	AVDD 2.8V
25	VPP(NC)
26	AGND
27	MD2N
28	MD3N
29	MD2P
30	MD3P

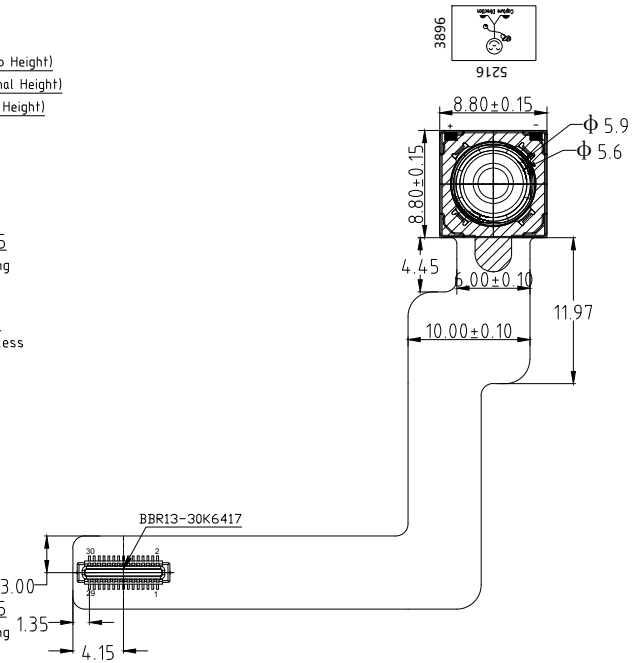
Version	Information
V1.0	First Version
V1.2	Change lens and VCM



BOTTOM VIEW



SIDE VIEW



TOP VIEW

NOTE:
1.The device slave address:0x34;
2.Driver IC and its I2C Address: DW9763; 0x18;

Parameters:

1、Sensor specification:

Image Sensor: IMX376
Pixel: 1.0um×1.0um
Lens Type: 1/2.78
Important Voltage Description: DVDD1.05V (external power supply);

2、Lens specification:

FOV: 78°(D);65.9°(H);52°(V)
F/NO.: 1.8
TV distortion: <1.0%
Focal length: 3.95mm
Composition: 6P+IR FILTER
IR Cut Coating: 650nm±10nm@50%

Kai Lap Technologies Group Ltd

Designed By	Kevin	Model Name:	KLT-Z3MA-IMX376 V1.2
Checked By	Jacky	Projection Type: Third Angle	Unit: mm / Date: 3/22/2025 / Scale: 1:1 / Sheet: 1 of 1 / Version: 1/0

SONY

Diagonal 6.475 mm (Type 1/2.78) 20Mega-Pixel CMOS Image Sensor with Square Pixel for Color Cameras

IMX376-AAJH5-C

General description and application

IMX376 is a diagonal 6.475 mm (Type 1/2.78) 20 Mega-pixel CMOS active pixel type stacked image sensor with a square pixel array. It adopts Exmor RS™ technology to achieve high speed image capturing by column parallel A/D converter circuits and high sensitivity and low noise image (comparing with conventional CMOS image sensor) through the backside illuminated imaging pixel structure. R, G, and B pigment primary color mosaic filter is employed. It operates with four power supply: analog 2.8 V, 1.8V, digital 1.05 V and 1.8 V for input/output interface and achieves low power consumption. It is optionally operational with conventional three power supplies by using an analog power supply voltage of 2.8V.
In addition, this product is designed for use in cellular phone and tablet pc. When using this for another application, Sony Semiconductor Solutions Corporation does not guarantee the quality and reliability of product. Therefore, don't use this for applications other than cellular phone and tablet pc. Consult your Sony Semiconductor Solutions Corporation sales representative if you have any questions.

Functions and Features

- ◆ Back-illuminated and stacked CMOS image sensor Exmor RS
- ◆ High Frame Rate 30fps@Full resolution / 120fps@2x2 Adjacent Pixel Binning (4:3) / 150fps@2x2 Adjacent Pixel Binning (16:9)
- ◆ Electronic Image Stabilization (EIS)
- ◆ High signal to noise ratio(SNR)
- ◆ Dual sensor synchronization operation
- ◆ Built-in 2D Dynamic Defect Pixel Correction
- ◆ Lens Shading Correction (LSC)
- ◆ Built-in temperature sensor
- ◆ Output video format of RAW10/8, COMP8
- ◆ Pixel binning readout function
- ◆ Two PLLs for independent clock generation for pixel control and data output interface
- ◆ CSI-2 serial data output (MIPI 2lane/4lane, Max. 2.3Gbps/lane, D-PHY spec. ver. 1.2 compliant)
- ◆ 2-wire serial communication
- ◆ Advanced Noise Reduction (Chroma noise reduction and RAW noise reduction)
- ◆ 12K bit of OTP ROM for users
- ◆ Quad Bayer Coding color filter arrangement

Exmor RS

Device Structure

◆CMOS image sensor
◆Image size : Diagonal 6.475 mm (Type 1/2.78)
◆Total number of pixels : 5216 (H) × 4032 (V) approx. 21.03 M pixels
◆Number of effective pixels : 5216 (H) × 3896 (V) approx. 20.32 M pixels
◆Number of active pixels : 5184 (H) × 3880 (V) approx. 20.11 M pixels
◆Chip size : 6.415 mm (H) × 4.759 mm (V)
◆Unit cell size : 1.00 µm (H) × 1.00 µm (V)
◆Substrate material : Silicon

Absolute Maximum Ratings

Item	Symbol	Ratings	Unit	notes
Supply voltage (analog)	VANA1	-0.3 to +4.2	V	refer to VSS level
Supply voltage (digital)	VDIG	-0.3 to +1.54	V	
Supply voltage (interface)	VIF	-0.3 to +2.52	V	
Input voltage (digital)	VI	-0.3 to +2.52	V	
Output voltage (digital)	VO	-0.3 to +2.52	V	
Supply voltage (analog)	VANA2	-0.3 to +4.2	V	
Guaranteed Operating temperature	TOPR	-20 to +70	˚C	
Guaranteed storage temperature	TSTG	-30 to +80	˚C	
Guaranteed performance temperature	TSPEC	-20 to +60	˚C	

Recommended Operating Voltage

Item	Symbol	Ratings	Unit	notes
Supply voltage (analog)	VANA1	2.8 ± 0.1	V	refer to VSS level
Supply voltage (digital)	VDIG	1.05 ± 0.1	V	
Supply voltage (interface)	VIF	1.8 ± 0.1	V	
Supply voltage (analog)	VANA2(*)	2.8±0.1 or 1.8±0.1	V	

Note : 1.8V is recommended. For details, refer to DC characteristics.

1. General Description

The DW9763 is a single 10-bit DAC with 100mA output current sinking capability and embedded 8KByte eFlash memory. Designed for linear control of voice coil motors, the DW9763 is capable of operating voltage up to 3.3V.

The SAC (Smart Actuator Control) mode is applied to minimize the mechanical vibration. The SAC mode highly improves the actuator's settling time and tolerance coverage compared with conventional LSC (Linear Slope Control) mode. The DAC and eFlash are controlled via an I2C compatible serial interface.

The DW9763 incorporates with a POR (Power On Reset) circuit, power down mode. POR circuit gets to operate when VDD (supply power) turns on. The output current keeps 0mA until valid register value takes place. During the power down mode, it consumes current max.1uA.

The DW9763 is designed for auto focus and optical zoom for mobile camera, digital still camera, camcorders and other nano actuator applications.

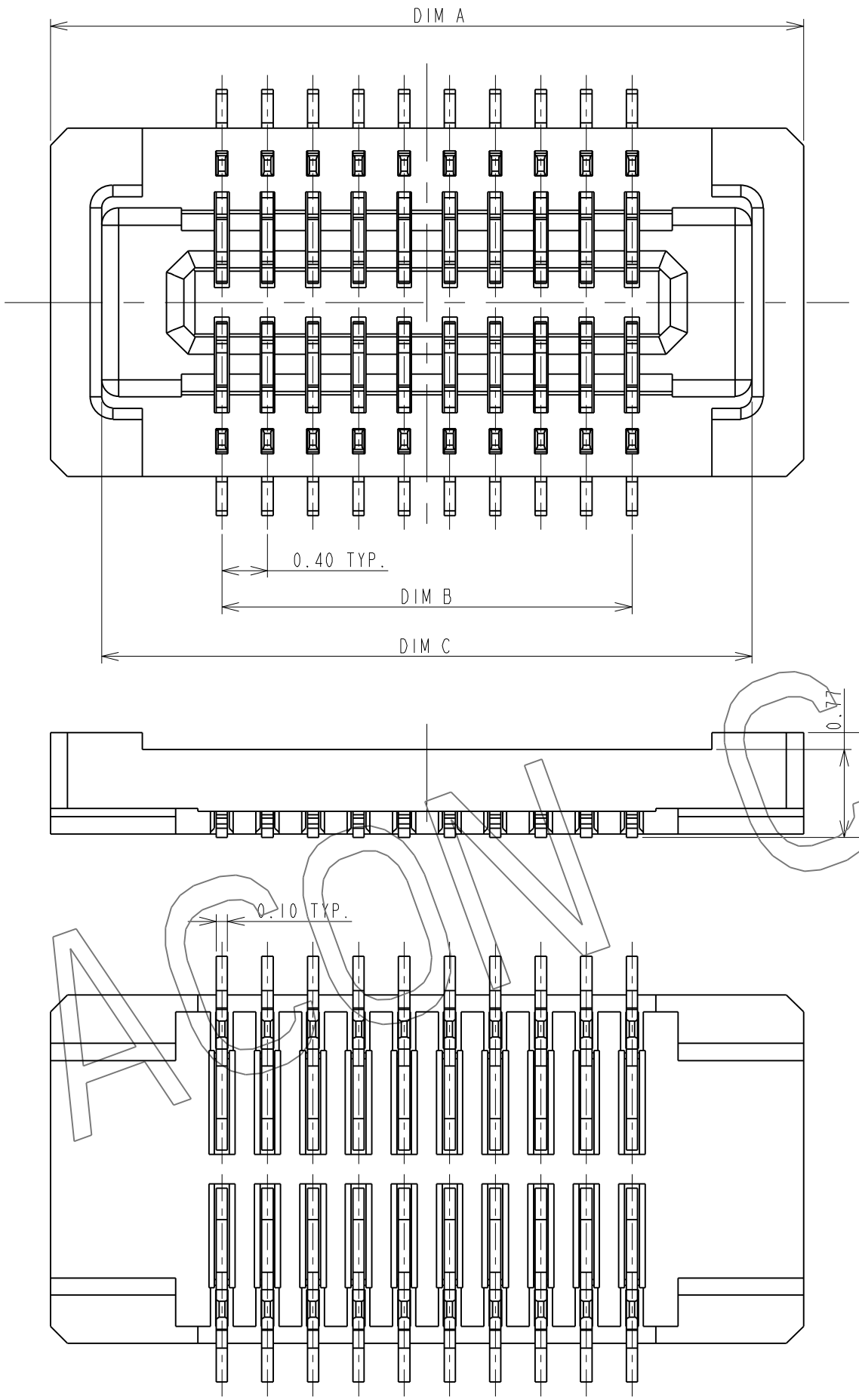
■ Features

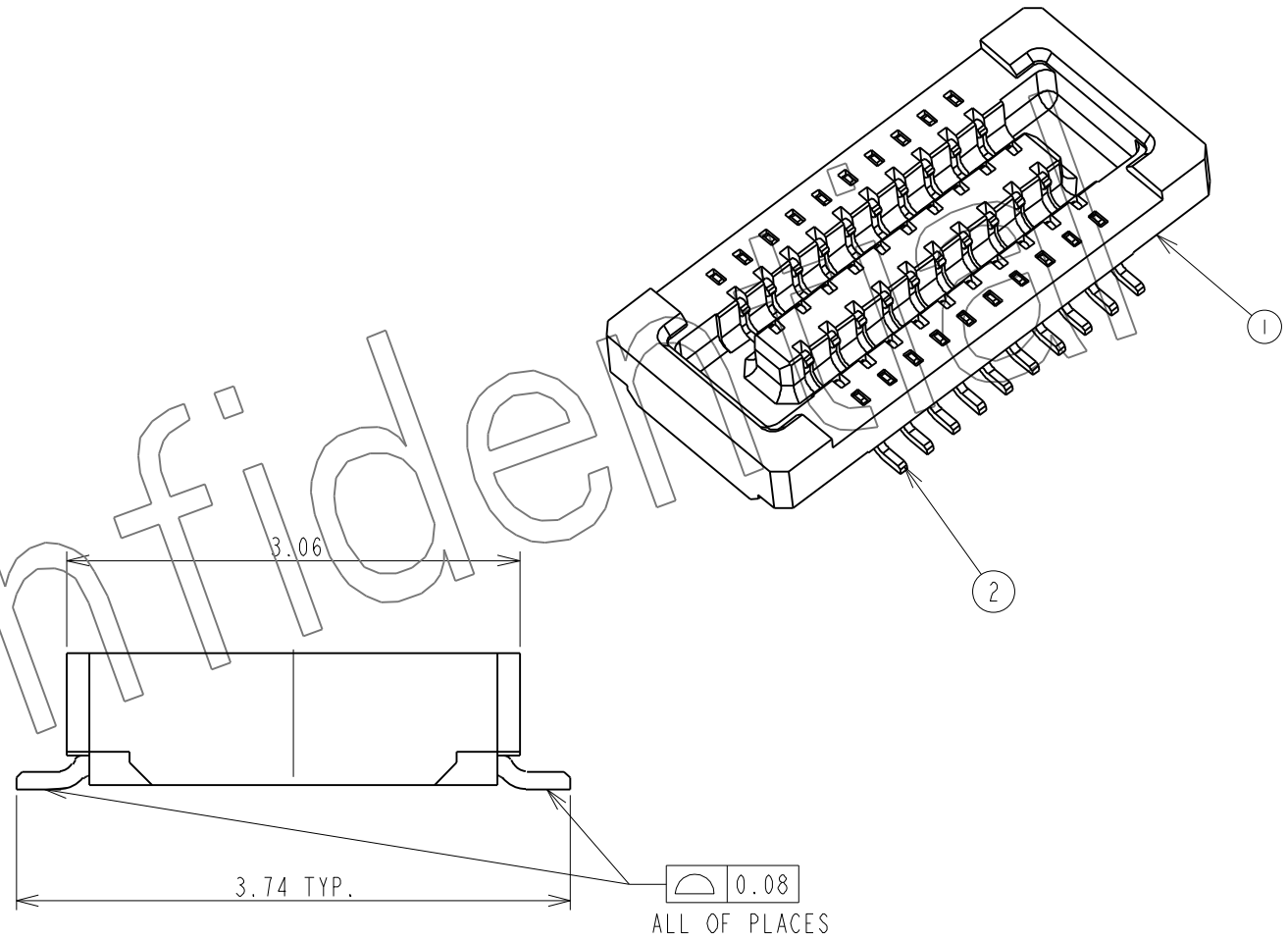
10 bit resolution current sinking of 100mA for VCM
SAC (Smart Actuator Control) mode
Supply voltage range (VDD) : 2.3V to 3.3V
Fast mode I2C interface compatible (1.8V interface available)
Power down mode
Power on reset (POR)
Embedded 8KByte eFlash memory
Package : 8 pin WLCSP
Package Size : 0.77mm X 1.75mm X 0.3mm

■ Applications

Mobile camera
Digital still camera
Camcorder
Web camera
Nano actuator

REV.	EC#	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
A	TJECR10018-02	NEW RELEASE PER NPR10009	11/05/10'	RAIN	DICK.SON	HARDWARE
B	TJECR13014	B XI,AXI	05/13/13'	RAIN	Steve.M eng	Jeff





ITEM	NAME	Q'TY	PART #	MATERIAL / FINISH
2	CONTACT	XX	T-BBR43-100X30	COPPER ALLOY/PLATING GOLD
1	HOUSING	1	1-BBR43-1XXX33	HIGH TEMP RESIN/UL 94 V-0

TOLERANCES UNLESS OTHERWISE SPECIFIED
GENERAL X. ±0.38, .X ±0.25, .XX ±0.13, .XXX ±0.05
ANGLES X°. ±3.0°, .X° ±2.0°, .XX° ±1.0°

SCALE 20:1
SHEET 1 OF 2
UNIT mm

DRAWN	RAIN	04/15/10'
DESIGN	RAIN	04/15/10'
CHECKED	HARDWARE	04/24/10'
APPROVED	DICK.LEE	04/24/10'

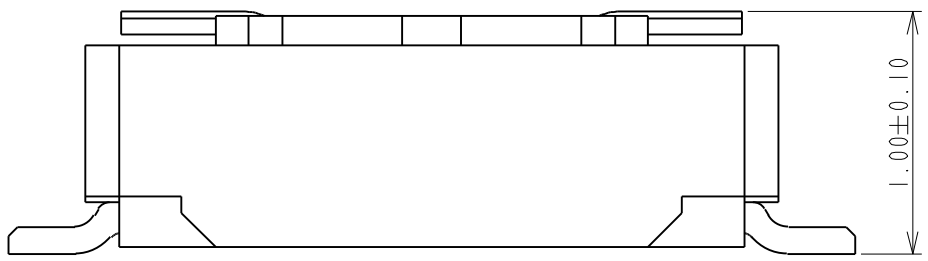
CUSTOMER DRAWING

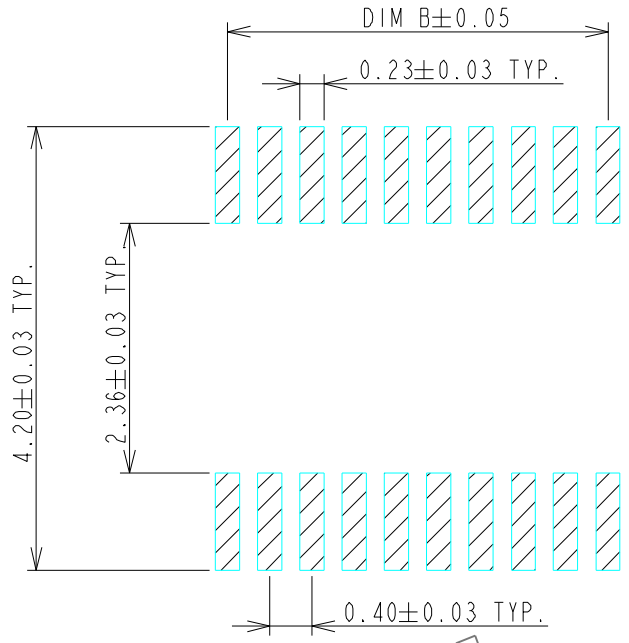
ACON ADVANCED— CONNECTEK INC.

TITLE: P0.4*H1.0mm BOARD TO BOARD CONN.RECEPTACLE WITHOUT HOLD DOWN

SERIES: BBR | SIZE: A3
DWG NO.: C-BBR43-04-01 | REV.: B

All materials meet the ACON's spec. environment-related substances management technical standard





RECOMMENDED P.C.BOARD PATTERN DIMENSION (WITHOUT HOLD DOWN)

PRODUCT NUMBERING CODE:

BBR43	-	XX	K	X	5	X	X
1		2	3	4	5	6	7

1.PRODUCTION CODE:

BBR43:BOARD TO BOARD 0.4 PITCH RECEPTACLE

2.POSITIONS:

XX: POSITIONS(SEE TABLE A

3.INSULATOR COLOR:

K: BLACK

4.CONTACT PLATING:

1:GOLD 1u" MIN

2.GOLD 5u" MIN

3:GOLD 10u" MIN

B:GOLD 4u" MIN FOR SPOT PLATING

ALL OVER Ni 50~100u"

5.TYPE OF HEIGHT:

5: H=0.77mm

6. TYPE OF HOLD DOWN:

3: WITHOUT HOLD DOWN

7.OTHER

2: WITH POST,FINISHED PRODUCTS

3: WITHOUT POST,FINISHED PRODUCTS

TABLE A:

POSITIONS	DIM A	DIM B	DIM C
10	4.61	1.60	3.71
14	5.41	2.40	4.51
16	5.81	2.80	4.91
18	6.21	3.20	5.31
20	6.61	3.60	5.71
22	7.01	4.00	6.11
24	7.41	4.40	6.51
26	7.81	4.80	6.91
30	8.61	5.60	7.71
32	9.01	6.00	8.11
34	9.41	6.40	8.51
40	10.61	7.60	9.71
44	11.41	8.4	10.51
48	12.21	9.20	11.31
50	12.61	9.60	11.71
54	13.41	10.40	12.51
60	14.61	11.60	13.71
70	16.61	13.60	15.71
80	18.61	15.60	17.71

NOTES:

1.0: RATING:

1.1: VOLTAGE:60V AC/DC

1.2: CURRENT:0.5 AMPS

1.3: OPERATION TEMPERATURE:-40°C TO +85°C

2.0: ELECTRICAL CHARACTERISTIC:

2.1: CONTACT RESISTANCE: 50 mΩ MAX INITIAL

2.2: INSULATION RESISTANCE: 1000 MΩ MIN INITIAL

2.3: DIELECTIC WITHSTANDING VOLTAGE: 250V AC FOR ONE MINUTE

3.0 TOLERANCES UNLESS OTHERWISE SPECIFIED

GENERAL:	DIMENSION >10.00	±0.13
	DIMENSION 5.00~10.00	±0.10
	DIMENSION <5.00	±0.05

⚠B 4.0 ALL COPLANARITY IS 0.08mm MAX.BEFORE REFLOW

ALL COPLANARITY IS 0.10mm MAX.AFTER REFLOW

TOLERANCES UNLESS OTHERWISE SPECIFIED GENERAL X. ±0.38 .X ±0.25 .XX ±0.13 .XXX ±0.05 ANGLES X° ±3.0° .X° ±2.0° .XX° ±1.0°	DRAWN RAIN DATE 04/15/10'	ACON ADVANCED— CONNECTEK INC.
	DESIGN RAIN DATE 04/15/10'	TITLE P0.4*H1.0mm BOARD TO BOARD CONN.RECEPTACLE WITHOUT HOLD DOWN
SCALE 20:1	CHECKED HARDWARE DATE 04/24/10'	
SHEET 2 OF 2	APPROVED DICK.LEE DATE 04/24/10'	SERIES BBR / SIZE A3
UNIT mm	CUSTOMER DRAWING	DWG NO. C-BBR43-04-01 / REV. B

All materials meet the ACON's spec. environment-related substances management technical standard

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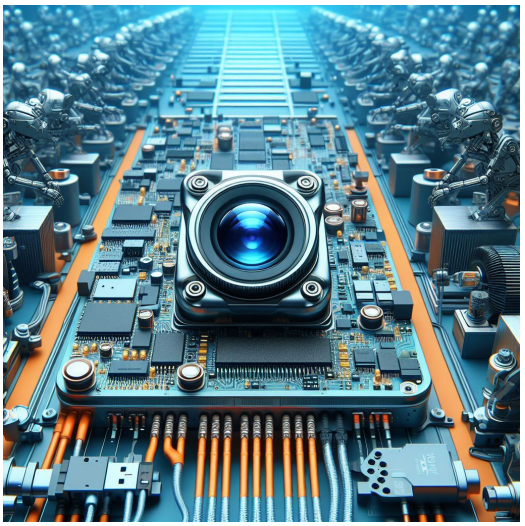
Cameras Applications

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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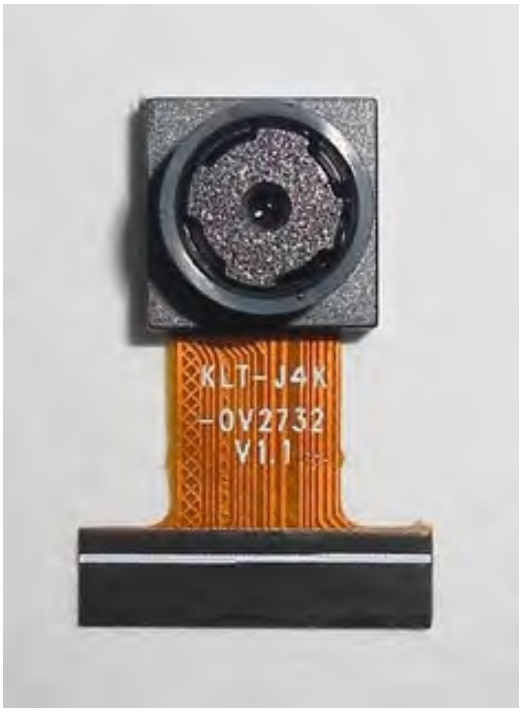
KLT Package Solutions

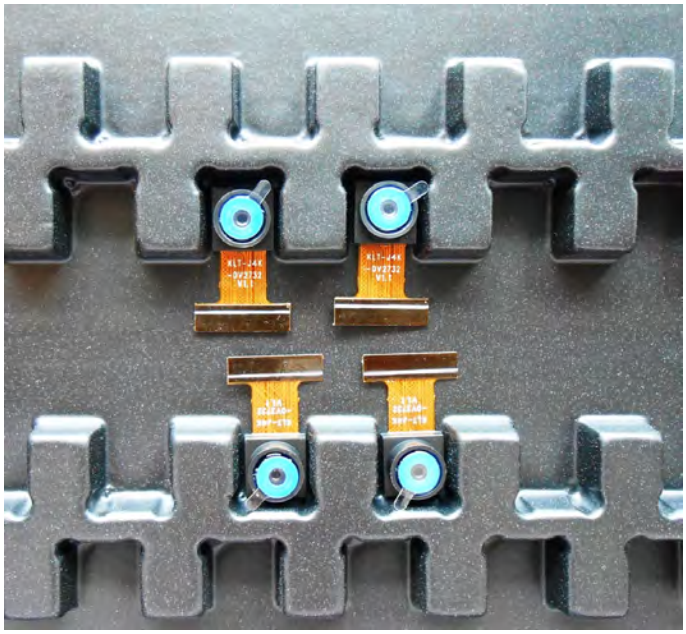
KLT Camera Module



Complete with Lens Protection Film

Tray with Grid and Space

Place Cameras on the Tray



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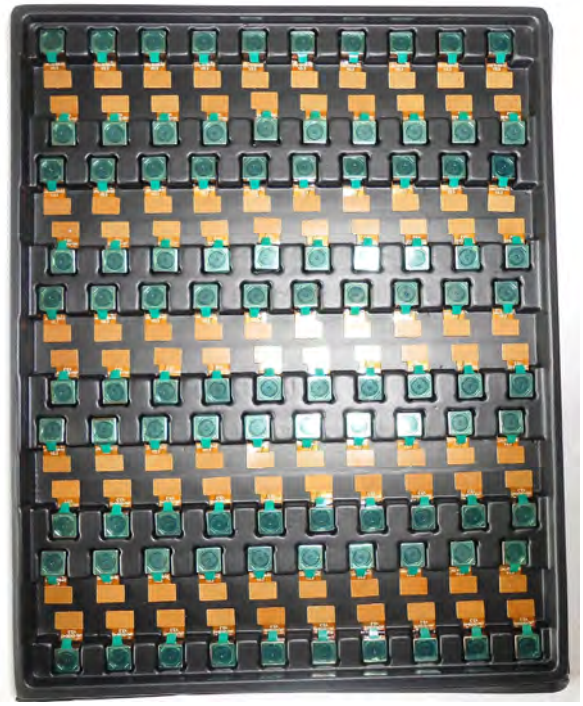
Camera Modules Package Solution

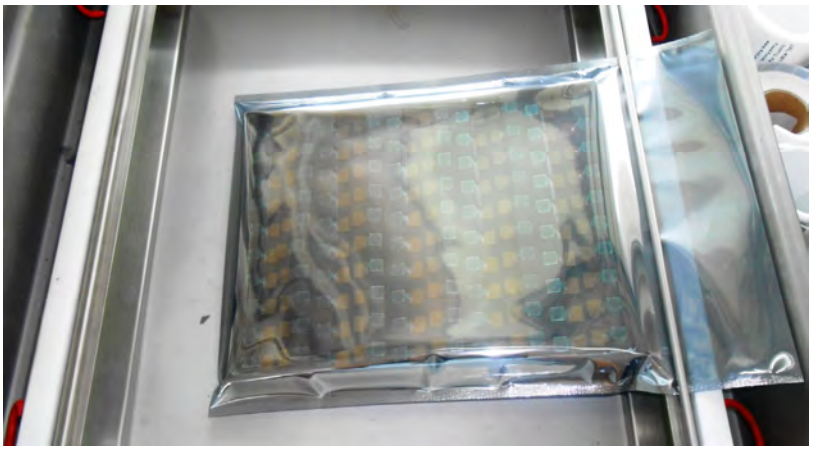
Full Tray of Cameras



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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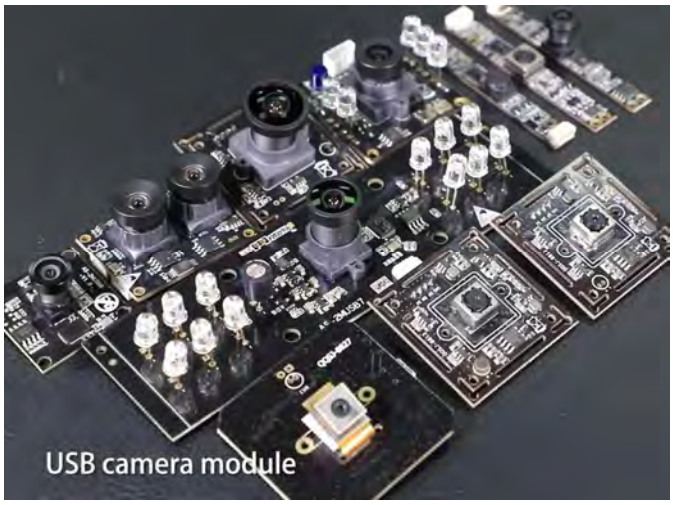
Company Kai Lap Technologies (KLT)

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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