

KLT-K7MF-IMX258T V1.4**13MP Sony IMX258-ATH5 MIPI Interface Fixed Focus Camera Module**

Front View



Back View

Specifications

Camera Module No.	KLT-K7MF-IMX258T V1.4
Resolution	13MP
Image Sensor	IMX258-ATH5
Sensor Type	1/3.06"
Pixel Size	1.12 μm x 1.12 μm
EFL	2.35 mm
F.NO	2.20
Pixel	4224 x 3136
View Angle	110.0°(DFOV) 90.0°(HFOV) 73.0°(VFOV)
Lens Dimensions	8.50 x 8.50 x 7.06 mm
Module Size	20.85 x 8.50 mm
Module Type	Fixed Focus
Interface	MIPI
Auto Focus VCM Driver IC	None
Lens Type	650nm IR Cut
Operating Temperature	-20°C to +70°C
Mating Connector	BBR43-30KB533

KLT-K7MF-IMX258T V1.4**13MP Sony IMX258-ATH5 MIPI Interface Fixed Focus Camera Module**

Top View



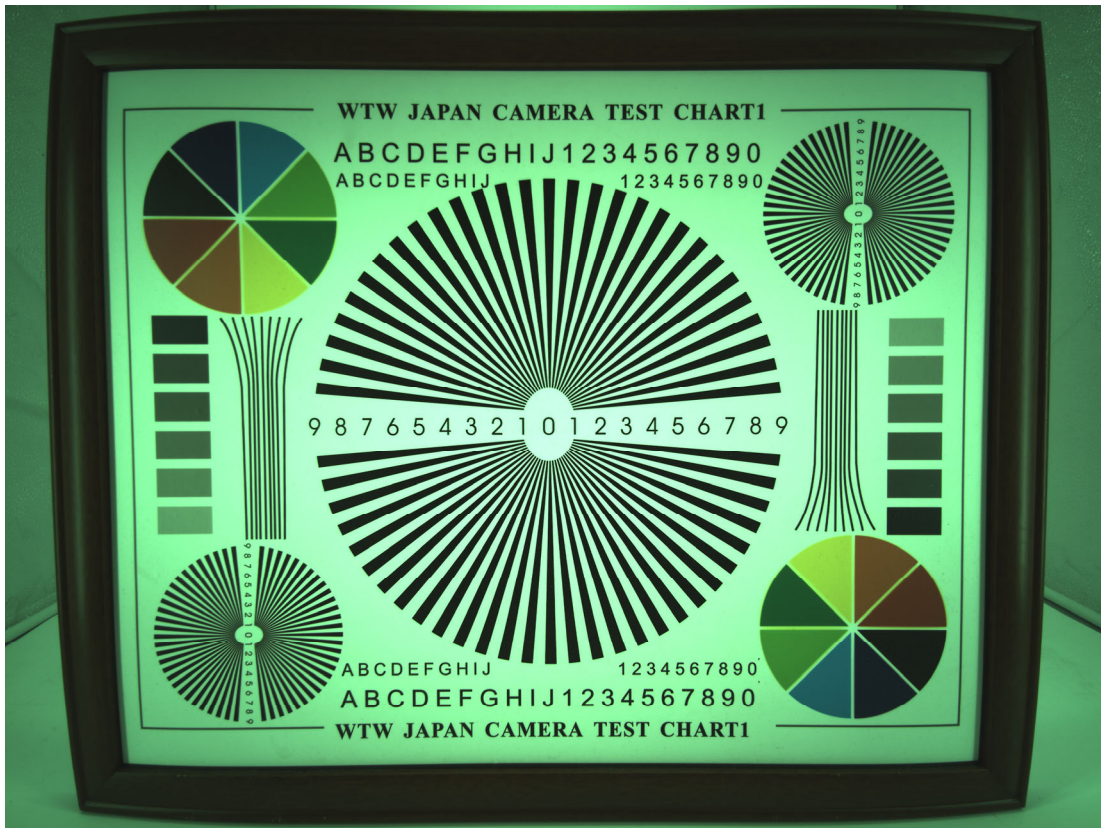
Side View

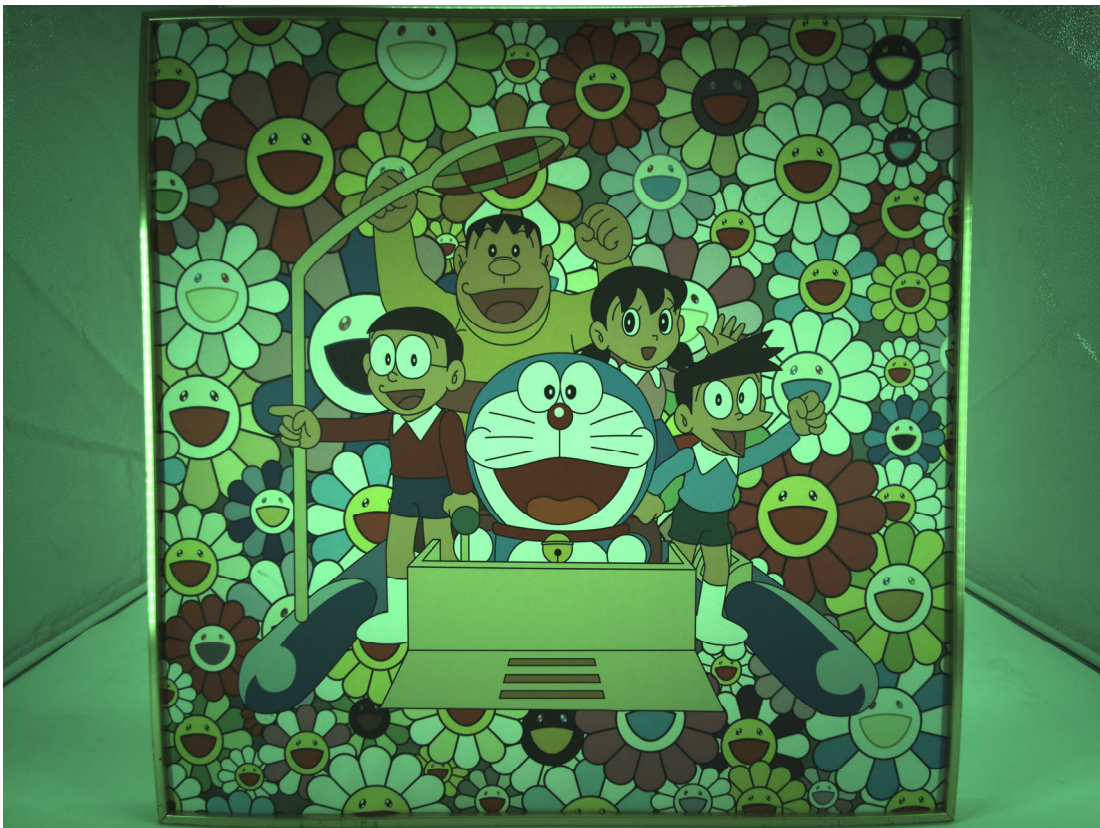


Bottom View



Mating Connector







Periodic table of Elements

GROUP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H Hydrogen 1.008																	He Helium 4.002
2	Li Lithium 6.941	Be Beryllium 9.01											B Boron 10.81	C Carbon 12.01	N Nitrogen 14.01	O Oxygen 15.99	F Fluorine 18.99	Ne Neon 20.18
3	Na Sodium 22.99	Mg Magnesium 24.31											Al Aluminum 26.98	Si Silicon 28.08	P Phosphorus 30.97	S Sulfur 32.07	Cl Chlorine 35.45	Ar Argon 39.95
4	K Potassium 39.09	Ca Calcium 40.08	Sc Scandium 44.95	Ti Titanium 47.87	V Vanadium 50.94	Cr Chromium 51.99	Mn Manganese 54.94	Fe Iron 55.85	Co Cobalt 58.93	Ni Nickel 58.69	Cu Copper 63.55	Zn Zinc 65.39	Ga Gallium 69.72	Ge Germanium 72.61	As Arsenic 74.92	Se Selenium 78.96	Br Bromine 79.90	Kr Krypton 83.80
5	Rb Rubidium 85.47	Sr Strontium 87.62	Y Yttrium 88.91	Zr Zirconium 91.22	Nb Niobium 92.91	Mo Molybdenum 95.94	Tc Technetium 97	Ru Ruthenium 101.1	Rh Rhodium 102.9	Pd Palladium 106.4	Ag Silver 107.9	Cd Cadmium 112.4	In Indium 114.8	Sn Tin 118.7	Sb Antimony 121.8	Te Tellurium 127.6	I Iodine 126.9	Xe Xenon 131.3
6	Cs Cesium 132.9	Ba Barium 137.3	La Lanthanum 138.9	Hf Hafnium 178.5	Ta Tantalum 180.9	W Tungsten 183.8	Re Rhenium 186.2	Os Osmium 190.2	Ir Iridium 192.2	Pt Platinum 195.1	Au Gold 196.9	Hg Mercury 200.6	Tl Thallium 204.4	Pb Lead 207.2	Bi Bismuth 208.9	Po Polonium 209	At Astatine 210	Rn Radon 222
7	Fr Francium 223	Ra Radium 226	Ac Actinium 227	Rf Rutherfordium 261	Db Dubnium 262	Sg Seaborgium 266	Bh Bohrium 264	Hs Hassium 277	Mt Meitnerium 268	Ds Darmstadtium 281	Rg Roentgenium 285	Cn Copernicium 285	Nh Nihonium 289	Fl Flerovium 289	Mc Moscovium 288	Lv Livermorium 293	Ts Tennessine 294	Og Oganesson 294
8	<div> <div> </div> <div> La Lanthanum 138.9 Lanthanum </div> <div> Ce Cerium 140.1 Cerium </div> <div> Pr Praseodymium 140.9 Praseodymium </div> <div> Nd Neodymium 144.2 Neodymium </div> <div> Pm Promethium 145 Promethium </div> <div> Sm Samarium 150.4 Samarium </div> <div> Eu Europium 151.9 Europium </div> <div> Gd Gadolinium 157.2 Gadolinium </div> <div> Tb Terbium 158.9 Terbium </div> <div> Dy Dysprosium 162.5 Dysprosium </div> <div> Ho Holmium 164.9 Holmium </div> <div> Er Erbium 167.2 Erbium </div> <div> Tm Thulium 168.9 Thulium </div> <div> Yb Ytterbium 173 Ytterbium </div> <div> Lu Lutetium 174.9 Lutetium </div> </div>																	
9	<div> <div> Ac Actinium 227 </div> <div> Th Thorium 232 Thorium </div> <div> Pa Protactinium 231 Protactinium </div> <div> U Uranium 238 Uranium </div> <div> Np Neptunium 237 Neptunium </div> <div> Pu Plutonium 243 Plutonium </div> <div> Am Americium 243 Americium </div> <div> Cm Curium 247 Curium </div> <div> Bk Berkelium 247 Berkelium </div> <div> Cf Californium 251 Californium </div> <div> Es Einsteinium 252 Einsteinium </div> <div> Fm Fermium 257 Fermium </div> <div> Md Mendelevium 258 Mendelevium </div> <div> No Nobelium 259 Nobelium </div> <div> Lr Lawrencium 260 Lawrencium </div> </div>																	

Hydrogen (Gas)

Other Metals

Noble Gases

Average Atomic Mass

Alkali Metals

Metalloids

Lanthanides

Atomic Number

Alkaline Earth Metals

Non-metals

Actinides

Name

Transition Metals

Halogens

Symbol

RoHS	
0	SIGNAL
1	GND
2	GND
3	GND
4	GND
5	NC
6	NC
7	SDA
8	DOVDD1.8V
9	SCL
10	DVDD1.2V
11	GND
12	XSHUTDOWN
13	MCN
14	NC
15	MCP
16	GND
17	MD0N
18	MCLK
19	MD0P
20	GND
21	MD1N
22	FLASH
23	MD1P
24	AVDD2.8V
25	VPP(NC)
26	AGND
27	MD2N
28	MD3N
29	MD2P
30	MD3P

NOTE:

1.The device slave address:0x34;

Parameters:

1、Sensor specification:

Image Sensor: IMX258-ATH5

Pixel: 1.12um×1.12um

Lens Type: 1/3.06

Important Voltage Description: DVDD1.2V
(external power supply);

2 、 Lens specification:

FOV: 110°(D);90°(H);73°(V)

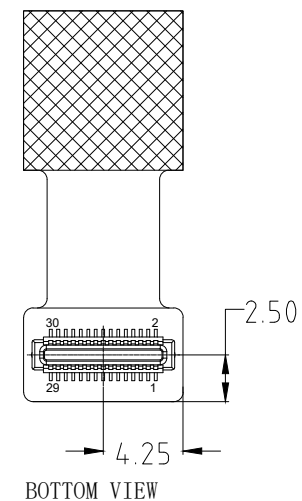
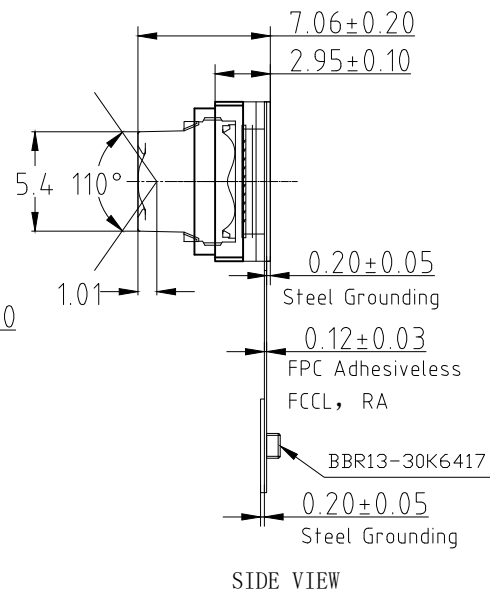
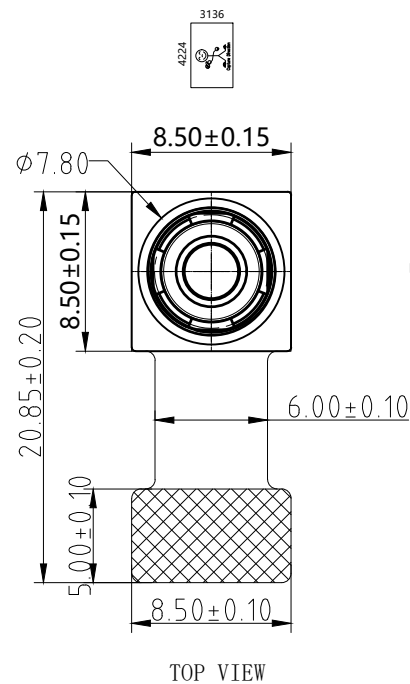
F/NO.: 2.2

TV distortion: <9.7%

Focal length: 2.35mm

Composition: 6P+IR FILTER

IR Cut Coating: 650nm±10nm@50%



Version	Information
V1.0	First Version
V1.2	Change sensor package
V1.4	Change lens and holder

Kai Lap Technologies Group Ltd

Designed By

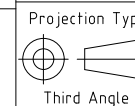
Kevin

Model Name:

KL T-K7MF-IMX258T V1.4

Checked By

Jacky



Unit:	mm
Scale:	1:1

Date: 11/12/2024

Sheet:
1 of 1

Version:	1/0
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[Product Brief]

Ver.1.0

IMX258

Diagonal 5.867 mm (Type 1/3.06) 13Mega-Pixel CMOS Image Sensor with Square Pixel for Color Cameras

Description

IMX258 is a diagonal 5.867mm (Type 1/3.06) 13 Mega-pixel CMOS active pixel type stacked image sensor with a square pixel array. It adopts Exmor RTM 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. By introducing spatially multiplexed exposure technology, high dynamic range still pictures and movies are achievable. It

equips an electronic shutter with variable integration time. It operates with three power supply voltages: analog 2.7 V, digital 1.2 V and 1.8 V for input/output interface and achieves low power consumption.

In addition, this product is designed for use in cellular phone and tablet pc. When using this for another application, Sony 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 sales representative if you have any questions.

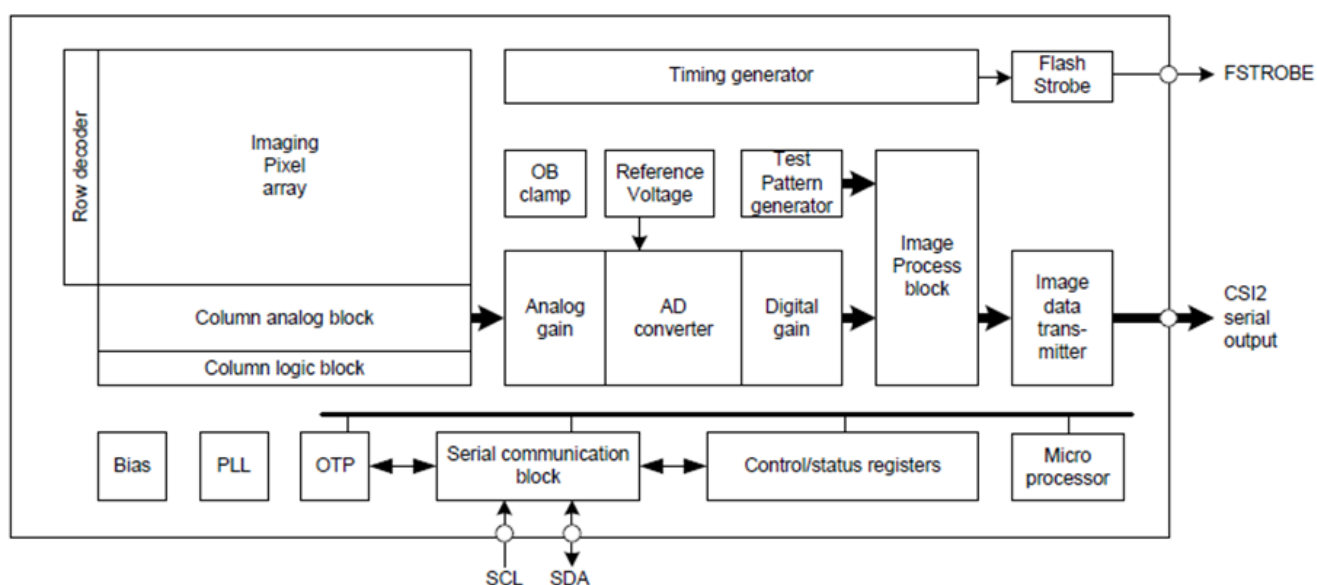
Functions and Features

- ◆ Back-illuminated and stacked CMOS image sensor Exmor RSTM
- ◆ Phase Detection pixel data output for Phase Detection Auto Focus
- ◆ High Dynamic Range (HDR) mode with raw data output.
- ◆ High signal to noise ratio (SNR).
- ◆ Full resolution @30fps (Normal / HDR). 4K2K @30fps (Normal / HDR) 1080p @60fps (Normal)
- ◆ Output video format of RAW10/8.
- ◆ Pixel binning readout and V sub-sampling function.
- ◆ Independent flipping and mirroring.
- ◆ CSI-2 serial data output (MIPI 2lane/4lane, Max. 1.3Gbps/lane, D-PHY spec. ver. 1.1 compliant)
- ◆ 2-wire serial communication.
- ◆ Two PLLs for independent clock generation for pixel control and data output interface.
- ◆ Dynamic Defect Pixel Correction.
- ◆ Fast mode transition. (on the fly)
- ◆ Dual sensor synchronization operation.
- ◆ 4K bit of OTP ROM for users.
- ◆ Built-in temperature sensor.

Device Structure

- ◆ CMOS image sensor
- ◆ Image size : Diagonal 5.867 mm (Type 1/3.06)
- ◆ Total number of pixels : 4224 (H) × 3192 (V) approx. 13.48 M pixels
- ◆ Number of effective pixels : 4224 (H) × 3144 (V) approx. 13.28 M pixels
- ◆ Number of active pixels : 4208 (H) × 3120 (V) approx. 13.13 M pixels
- ◆ Chip size : 5.990 mm (H) × 3.908 mm (V)
- ◆ Unit cell size : 1.12 μm (H) × 1.12 μm (V)
- ◆ Substrate material : Silicon

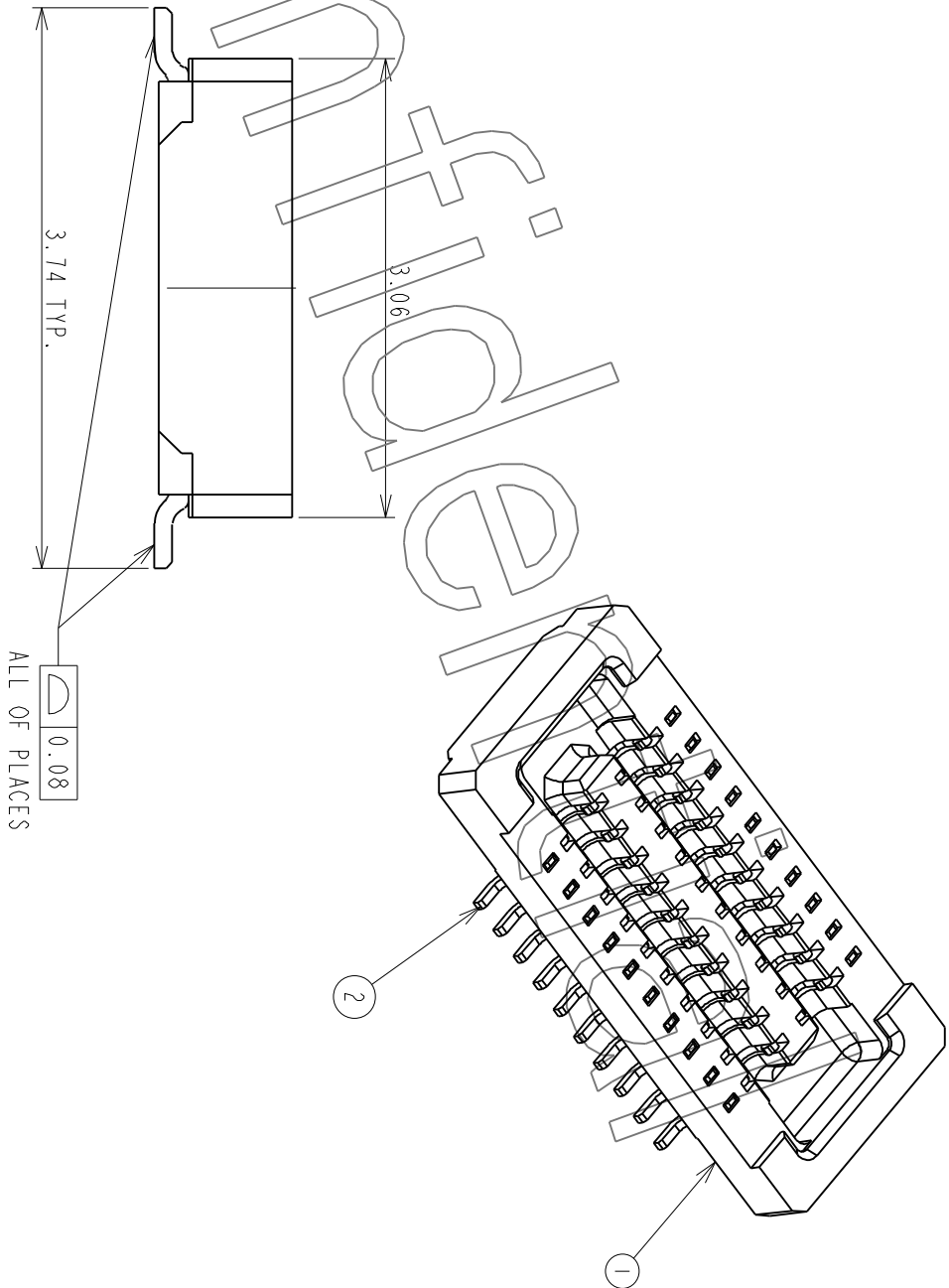
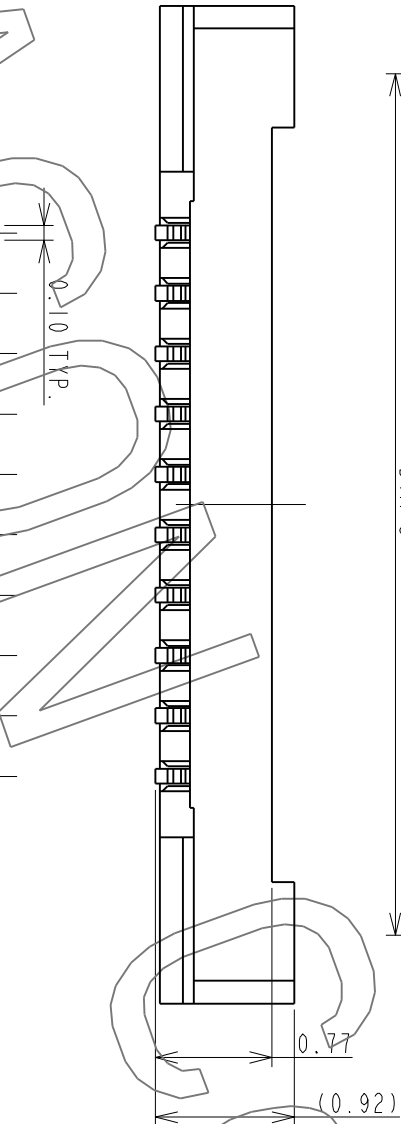
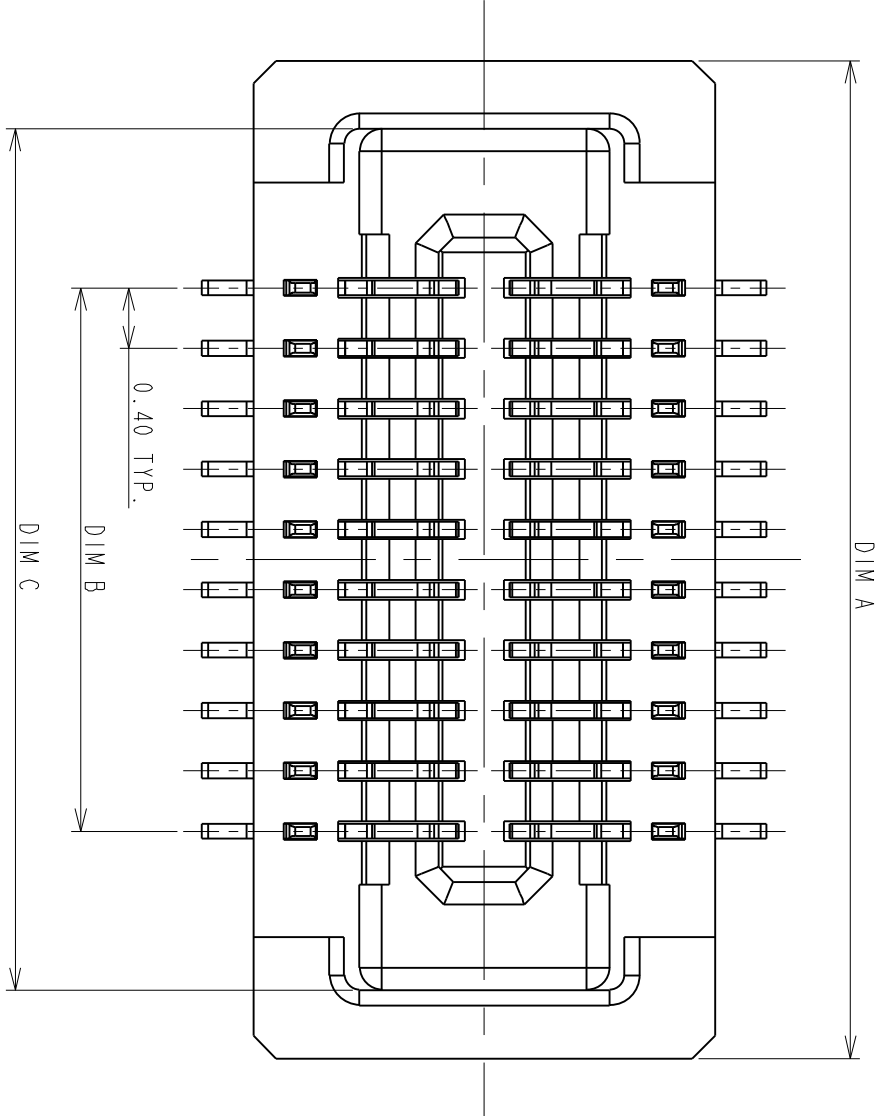
System block diagram



Exmor RS

* Exmor RS is a trademark of Sony Corporation. The Exmor RS is a Sony's CMOS image sensor with high-resolution, high-performance and compact size by replacing a supporting substrate in Exmor R™ which changed fundamental structure of Exmor™ pixel adopted column parallel A/D converter to back-illuminated type, with layered chips formed signal processing circuits.

REV.	EC#	DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
A	TJECR10018-02	NEW RELEASE PER NPI10009	11/05/10'	RAIN	DICK, SON	HARDWARE
B	TJECR13014	Δ XI, AXI	05/13/13'	RAIN	SteveM DESIGN	Jeff HARDWARE

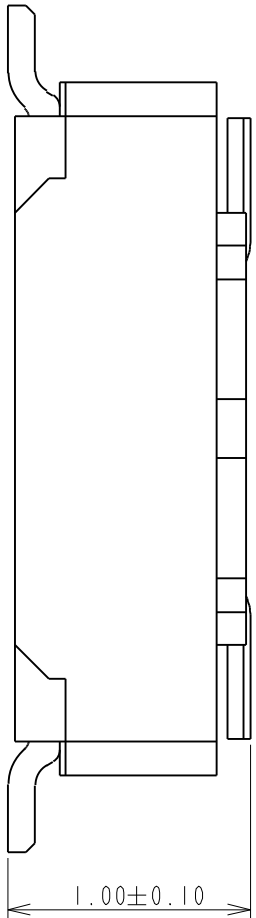


ITEM	NAME	Q'TY	PART #	MATERIAL / FINISH
2	CONTACT	XX	T-BBR43-100X30	COPPER ALLOY/PLATING GOLD
1	HOUSING	1	I-BBR43-1XXX33	HIGH TEMP RESIN/UL 94 V-0
TOLERANCES UNLESS OTHERWISE SPECIFIED				
GENERAL		XX	04/15/10'	RAIN
DESIGN		.XX	04/15/10'	RAIN
ANGLES		X° ±3.0°	04/15/10'	RAIN
SCALE		20:1	04/24/10'	RAIN
SHEET 1 OF 2		DATE	04/24/10'	RAIN
UNIT		MM	04/24/10'	RAIN
CUSTOMER DRAWING		SERIES	BBR	SIZE A3
		DWG NO.	C-BBR43-04-01	REV. B



ADVANCED—CONNECTEK INC.

P0.4*H1.0mm BOARD TO BOARD
CONN. RECEPTACLE
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:

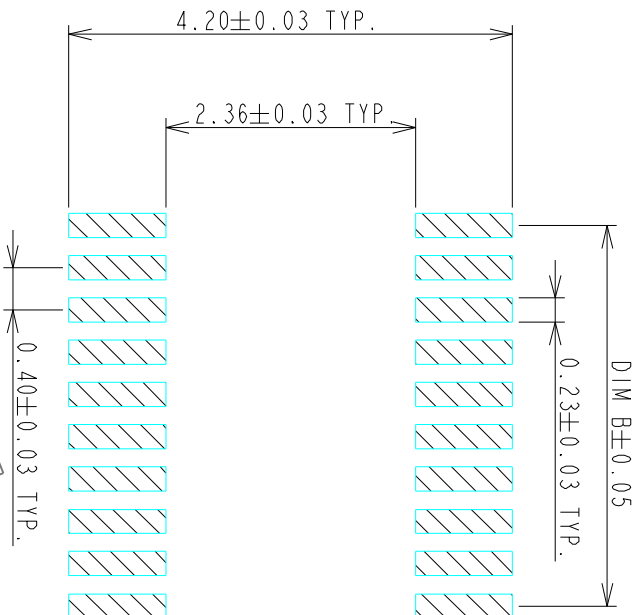
5: H=0.77mm

6. TYPE OF HOLD DOWN:

3: WITHOUT HOLD DOWN

7. OTHER

- 2: WITH POST, FINISHED PRODUCTS
- 3: WITHOUT POST, FINISHED PRODUCTS



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

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		

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

4.0 ALL COPLANARITY IS 0.08mm MAX. BEFORE REFLOW

ALL COPLANARITY IS 0.10mm MAX. AFTER REFLOW

TOLERANCES UNLESS OTHERWISE SPECIFIED		DRAWN		DATE	
GENERAL X ₁	±0.38	RAIN		04/15/10	
XX	±0.13	DESIGN		DATE	
ANGLES X ₂	±3.0°	RAIN		04/15/10	
XX	±2.0°	CHECKED		DATE	
SCALE 20:1		HARDWARE		04/24/10	
SHEET 2 OF 2		APPROVED		DATE	
UNIT mm		DICK. LEE		04/24/10	
CUSTOMER DRAWING		TITLE			
		P.0.4*11.0mm BOARD TO BOARD CONN. RECEPTACLE WITHOUT HOLD DOWN			
		SERIES		SIZE	
		BBR		A3	
		DWG NO. C-BBR43-04-01		REV. B	



Cameras Applications



Automotive Driver Pilot



Live Streaming



Video Conference



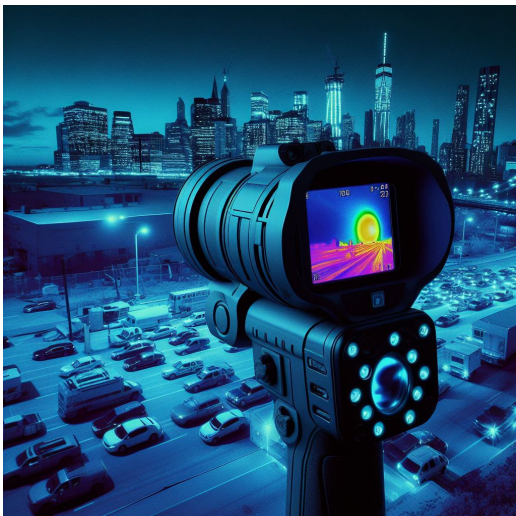
Eye Tracker Biometric Detection



Machine Vision



Agricultural Monitor



Night Vision Security



Drone and Sports Eagle Eyes



Interactive Pet Camera

Cameras Applications

your BEST camera module partner



IMAGING DEVICES



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

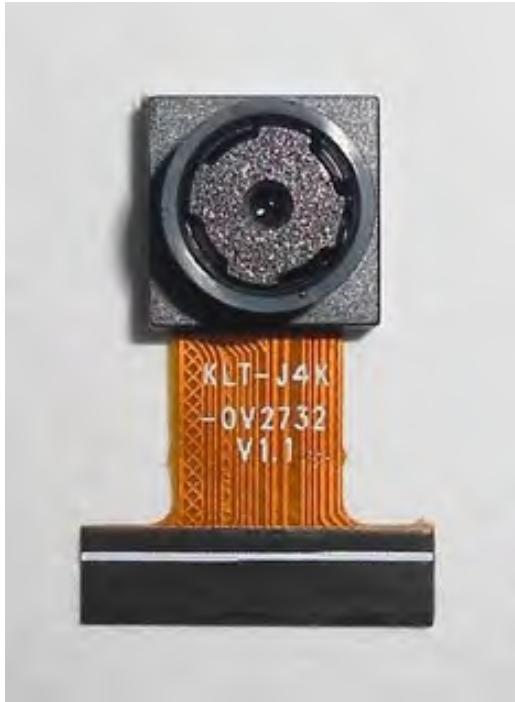
Reliability Inspection Item			Testing Method	Acceptance Criteria
Category		Item		
Environmental	Storage Temperature	High 60°C 96 Hours	Temperature Chamber	No Abnormal Situation
		Low -20°C 96 Hours	Temperature Chamber	No Abnormal Situation
	Operation Temperature	High 60°C 24 Hours	Temperature Chamber	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



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	

KLT Package Solutions

KLT Camera Module



Complete with Lens Protection Film



Tray with Grid and Space



Place Cameras on the Tray



Camera Modules Package Solution

Full Tray of Cameras



Cover Tray with Lid



Put Tray into Anti-Static Bag



Vacuum the Anti-Static Bag



Camera Modules Package Solution

Sealed Vacuum Bag with Labels

1. Model and Description 2. Quantity 3. Shipping Date 4. Caution



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



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



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



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





CMOS CAMERA MODULES



your BEST camera module partner

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 subsequent events.



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CMOS CAMERA MODULES



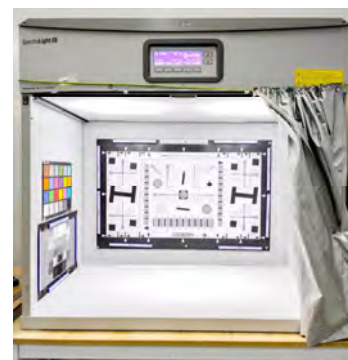
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