

JAL-HELEN-OV7675 V3.0

0.3MP OmniVision OV7675 LED DVP Parallel Interface Fixed Focus Camera Module



Front View



Back View

Specifications

Camera Module No.	JAL-HELEN-OV7675 V3.0
Resolution	0.3MP
Image Sensor	OV7675
Sensor Type	1/9"
Pixel Size	2.5 um x 2.5 um
EFL	1.25 mm
F.NO	5.00
Pixel	640 x 480
View Angle	105.0°(DFOV)
Lens Dimensions	4.50 mm Diameter
Module Size	94.00 x 6.60 mm
Module Type	Fixed Focus with LED
Interface	DVP Parallel
Auto Focus VCM Driver IC	None
Lens Model	KLT-LENS-JHM817B
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +70°C
Mating Connector	FH26W-21S-0.3SHW(60)

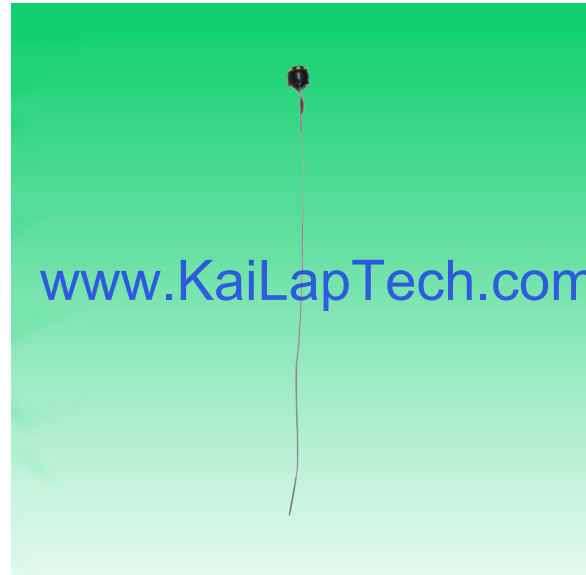


JAL-HELEN-OV7675 V3.0

0.3MP OmniVision OV7675 LED DVP Parallel Interface Fixed Focus Camera Module



Top View



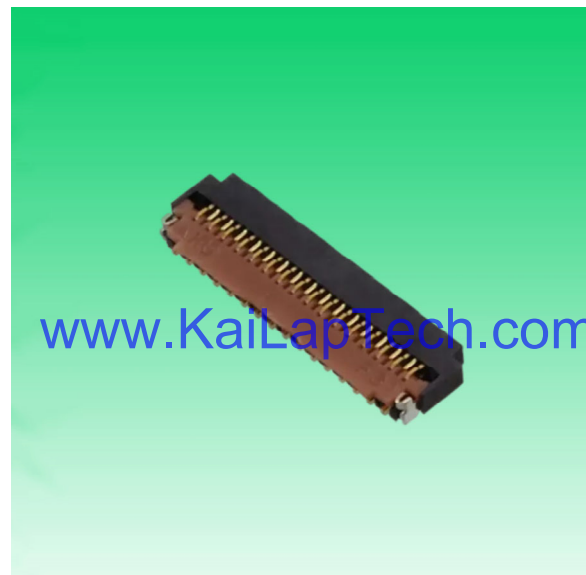
Side View

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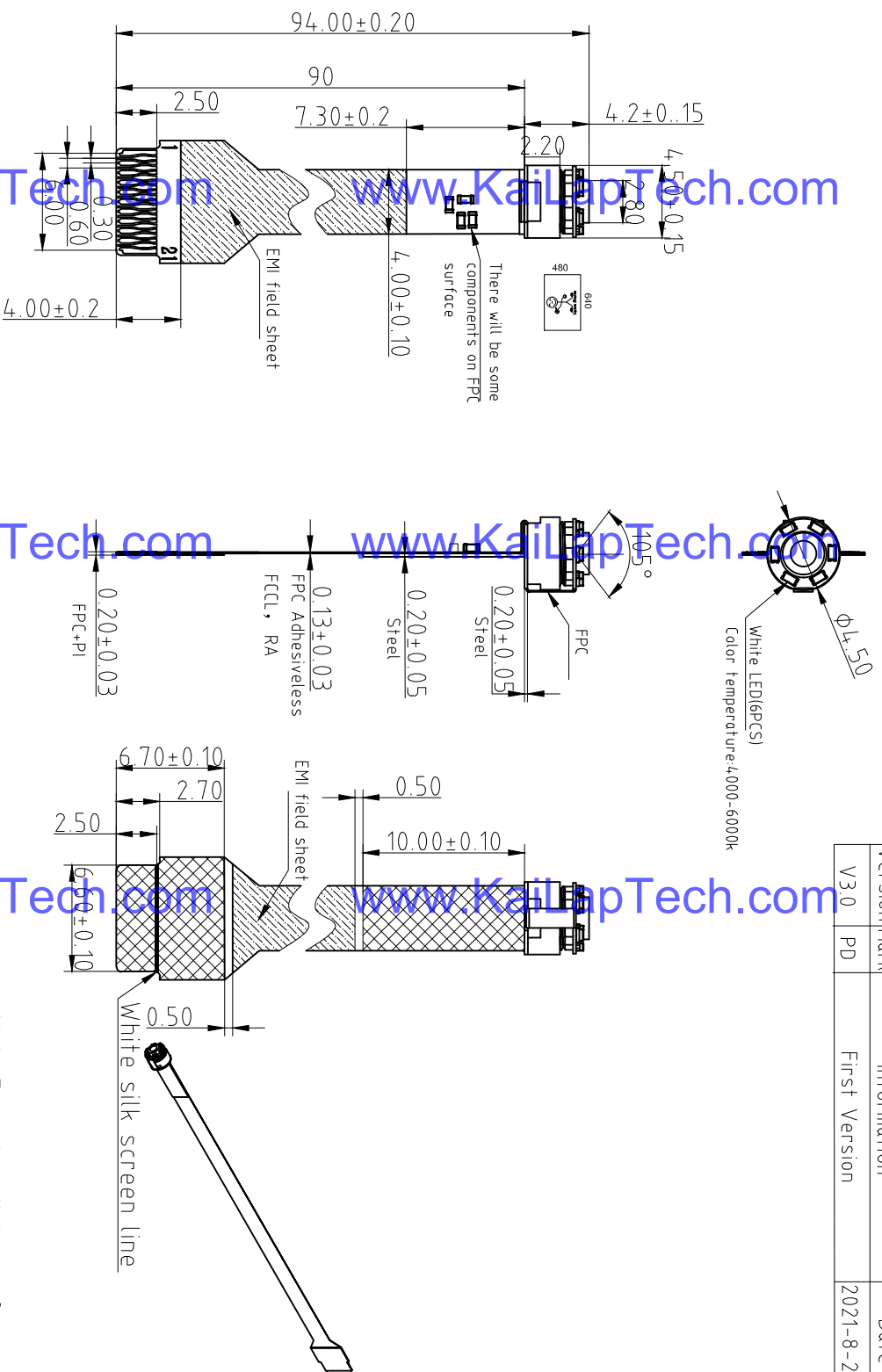


Bottom View



Mating Connector

ROHS	
PIN	SIGNAL
1	AVDD2.8V
2	DOVDD1.8V
3	GND
4	D0
5	D1
6	D2
7	D3
8	D4
9	D5
10	D6
11	D7
12	LED+
13	LED-
14	HREF
15	VSYNCG
16	PCLK
17	XVCLK
18	GND
19	SDA
20	SCL
21	XSHUTDOWN



Note: Focusing distance: 8mm

Parameters:

- Sensor specification:**
 - Image Sensor: OV7675
 - Pixel: 2.5umx2.5um
 - Lens Type: 1/9
 - Important Voltage Description: DVDD1.5V (Internal power supply);
- Lens specification:**
 - F θ : 105°(Diagonal)
 - F#N.D.: 5.0
 - T.V distortion: <25%
 - Focal length: 1.25mm
 - Composition: 2P+IR FILTER
 - IR Cut Coating: 650nm \pm 10nm@50%

Kai Lap Technologies Group Ltd			
Designed By	Kevin	Model Name:	JAL-HELEN-0V7675 V3.0
Checked By	Aouly Yan	Projection Type:	Third Angle
		Unit:	mm
		Scale:	1:1
		Material:	-----
		Sheet:	1 of 1
		Version:	1/0

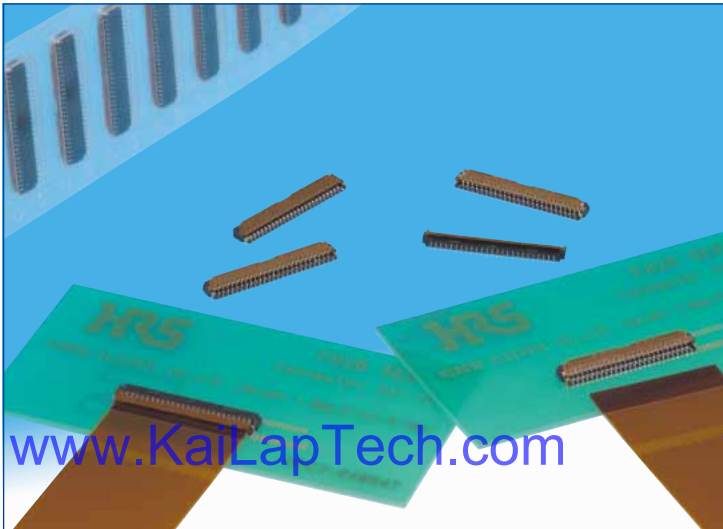
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2
1

3
2
1

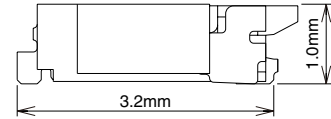
A B C D E

0.3 mm Pitch, 1.0 mm Height FPC Connector

FH26 Series



●Space saving(51 pos. shown)



Metal fittings do not protrude outside of the connector body

■Features

1. Low-profile 0.3 mm pitch FPC connector

Ultra-thin design, 1.0 mm height, 3.2 mm width all add up to a compact, space saving form factor.

*30% reduction in PCB footprint

*40% reduction in weight

(Compared to our 0.3 mm pitch FH23 Series 51 position connector.)

2. Easy PCB Mounting

The leads are double sided and have a 0.6 mm mounting lead pitch to simplify mounting.

3. Fully molded structure aids PCB layout

The bottom of this connector is enclosed by a fully molded structure that protects the contacts and removes any restrictions from PCB patterning and design.

4. Rotating one-touch ZIF mechanism

The one-touch rotating ZIF mechanism is easier to operate and works with a light force, and a clear tactile click is delivered upon the successful completion of the mating process

5. Easy FPC insertion

The metal FPC insertion guides helps to make this the FPC insertion process easier.

6. FPC. Accepts standard 0.2 mm thick FPC

This connector accepts standard 0.2 mm thick FPC. (The proper FPC stiffener thickness will prevent FPC deformation and ease insertion and mating.)

7. Supports automatic pick-n-place mounting

Offered in tape and reel packaging that is compatible with automatic machine mounting. (5,000 pieces per reel)

8. Halogen-free

If you need a Halogen free connector, please use the FH26W type. All materials and substances used to produce the FH26W Series product complies with Halogen-free standards. * Defined according to IEC61249-2-21

Br: 900ppm max, Cl: 900ppm max, Br+Cl: 1,500ppm max.

9. Multiple packing options

The standard packaging is 5,000 pieces per reel, but it is also offered in a 500 piece reel. (The outer diameter of the reel will be ϕ 180 mm in this case.)

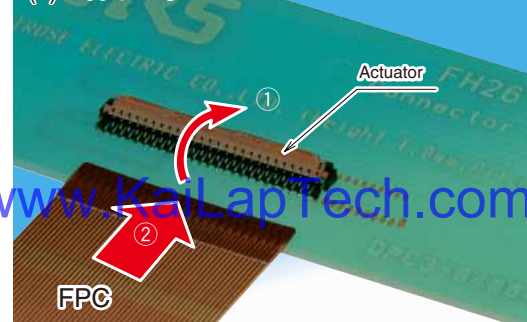
●Can be mounted over conductive traces.



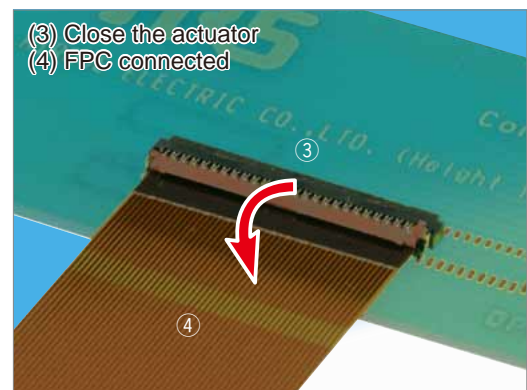
No exposed contacts on the bottom of the connector

●Operation

- (1) Actuator open
- (2) Insert FPC



- (3) Close the actuator
- (4) FPC connected



Specifications

Rating	Current rating Voltage rating	0.2A DC 30V AC	Operating temperature range Operating humidity range	-55 °C to +85°C (Note 1) Relative humidity 90% max. (No condensation)	Storage temperature range Storage humidity range	-10°C to +50°C (Note 2) Relative humidity 90% max.
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Recommended FPC :	Thickness: = 0.2±0.03mm gold plated
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Item	Specification	Conditions
1. Insulation resistance	50 M ohms min.	100 V DC
2. Withstanding voltage	No flashover or insulation breakdown.	90 V AC /one minute
3. Contact resistance	100 m ohms max. * Including FPC conductor resistance	1 mA
4. Durability (Insertion/ withdrawal)	Contact resistance: 100 m ohms max. No damage, cracks, or parts dislocation.	10 cycles
5. Vibration	No electrical discontinuity of 1μs or more. Contact resistance: 100 m ohms max. No damage, cracks, or parts dislocation.	Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 10 cycles, 3 directions.
6. Shock	No electrical discontinuity of 1/4s. min. Contact resistance: 100 m ohms max. No damage, cracks, or parts dislocation.	Acceleration of 981 m/s ² , 6 ms duration, sine half-wave waveform, 3 cycles in each of the 3 axis
7. Humidity (Steady state)	Contact resistance: 100 m ohms max. Insulation resistance: 50 M ohms min. No affect on appearance or performance.	96 hours at temperature of 40±2°C and humidity of 90% to 95%.
8. Temperature cycle	Contact resistance: 100 m ohms max. Insulation resistance: 50 M ohms min. No damage, cracks, or parts looseness.	Temperature: -55 °C→+15°C to +35°C→+85°C→+15°C to +35°C Time: 30 → 2 to 3 → 30 → 2 to 3 (Minutes) 5 cycles
9. Resistance to soldering heat	No deformation of components affecting performance.	Reflow: At the recommended temperature profile Manual soldering: 350°C +/-10°C for 5±1 seconds

Note 1: Includes temperature rise caused by current flow.

Note 2: The term "storage" refers to products stored for long period of time prior to mounting and use. Operating Temperature Range and Humidity range covers non- conducting condition of installed connectors in storage, shipment or during transportation.

Materials

Part	Material	Finish	Remarks
Insulator	LCP	Color: Black	UL94V-0
	PA	FH26 series: Deep brown FH26W series: Light brown	
Contacts	Phosphor bronze	Gold plating	_____
Metalfittings		Pure tin reflow plating	_____

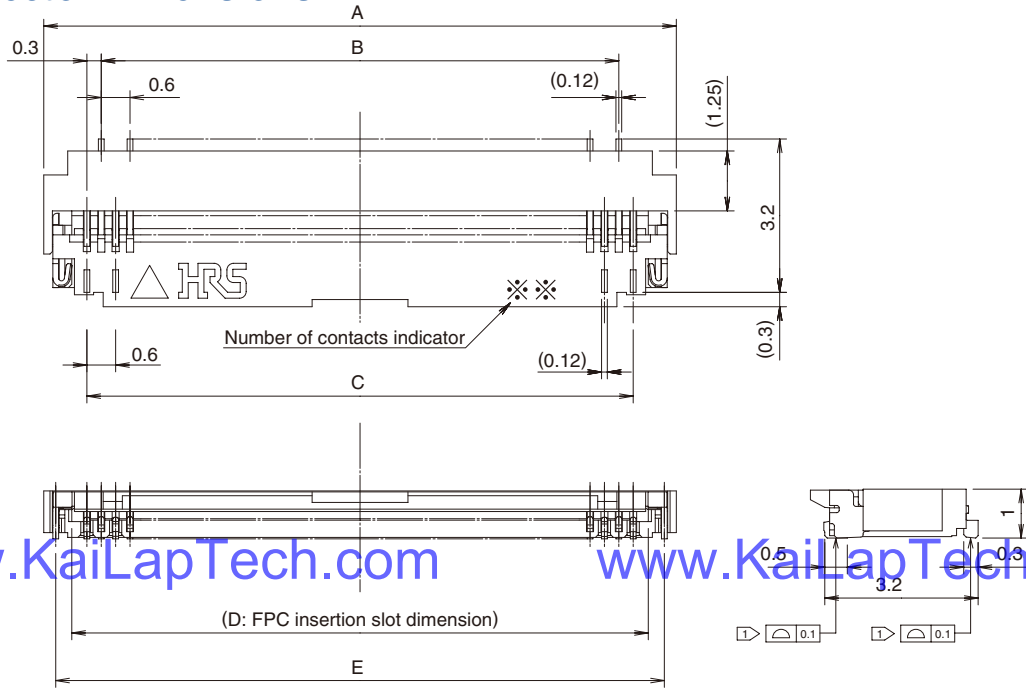
Ordering information

FH 26 W - 51S - 0.3 SHW (05)

①
②
③
④
⑤
⑥
⑦

① Series name: FH	⑥ Termination type SHW: SMT horizontal staggered mounting type
② Series No.: 26	
③ Blank: Standard W: Satisfies halogen-free requirements (Flame retardance UL94HB).	
④ Number of positions: 13 to 71	
⑤ Contact pitch: 0.3mm	
⑦ Specifications (10)...Gold plating with nickel barrier, 5,000 pieces / reel (99)...Gold plating with nickel barrier, 500 pieces / reel	

Connector Dimensions

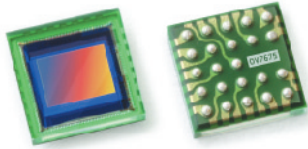


- Notes
- 1 The coplanarity of each terminal lead within specified dimension is 0.1 mm Max.
 - 2 Packaged on tape and reel only. Check packaging specification.
 - 3 Slight variations in color of the plastic compounds do not affect form, fit or function of the connector.
 - 4 After reflow, the terminal plating may change color, however this does not represent a quality issue.

All dimensions: mm

Part Number	CL No.	Number of Contacts	A	B	C	D	E
FH26-13S-0.3SHW(**)	580-0209-3-**-	13	5.4	3.0	3.6	4.23	4.9
FH26-15S-0.3SHW(**)	580-0218-4-**-	15	6.0	3.6	4.2	4.83	5.5
FH26-17S-0.3SHW(**)	580-0217-1-**-	17	6.6	4.2	4.8	5.43	6.1
FH26-21S-0.3SHW(**)	580-0207-8-**-	21	7.8	5.4	6.0	6.63	7.3
FH26-23S-0.3SHW(**)	580-0203-7-**-	23	8.4	6.0	6.6	7.23	7.9
FH26-25S-0.3SHW(**)	580-0208-0-**-	25	9.0	6.6	7.2	7.83	8.5
FH26-27S-0.3SHW(**)	580-0204-0-**-	27	9.6	7.2	7.8	8.43	9.1
FH26-29S-0.3SHW(**)	580-0216-9-**-	29	10.2	7.8	8.4	9.03	9.7
FH26-31S-0.3SHW(**)	580-0214-3-**-	31	10.8	8.4	9.0	9.63	10.3
FH26-33S-0.3SHW(**)	580-0210-2-**-	33	11.4	9.0	9.6	10.23	10.9
FH26-35S-0.3SHW(**)	580-0205-2-**-	35	12.0	9.6	10.2	10.83	11.5
FH26-37S-0.3SHW(**)	580-0224-7-**-	37	12.6	10.2	10.8	11.43	12.1
FH26-39S-0.3SHW(**)	580-0201-1-**-	39	13.2	10.8	11.4	12.03	12.7
FH26-41S-0.3SHW(**)	580-0206-5-**-	41	13.8	11.4	12.0	12.63	13.3
FH26-45S-0.3SHW(**)	580-0211-5-**-	45	15.0	12.6	13.2	13.83	14.5
FH26-51S-0.3SHW(**)	580-0200-9-**-	51	16.8	14.4	15.0	15.63	16.3
FH26-55S-0.3SHW(**)	580-0221-9-**-	55	18.0	15.6	16.2	16.83	17.5
FH26-57S-0.3SHW(**)	580-0212-8-**-	57	18.6	16.2	16.8	17.43	18.1
FH26-61S-0.3SHW(**)	580-0213-0-**-	61	19.8	17.4	18.0	18.63	19.3
FH26-71S-0.3SHW(**)	580-0202-4-**-	71	22.8	20.4	21.0	21.63	22.3
Part Number	CL No.	Number of Contacts	A	B	C	D	E
FH26W-13S-0.3SHW(**)	580-2401-1-**-	13	5.4	3	3.6	4.23	4.9
FH26W-15S-0.3SHW(**)	580-2402-4-**-	15	6.0	3.6	4.2	4.83	5.5
FH26W-17S-0.3SHW(**)	580-2403-7-**-	17	6.6	4.2	4.8	5.43	6.1
FH26W-19S-0.3SHW(**)	580-2437-9-**-	19	7.2	4.8	5.4	6.03	6.7
FH26W-21S-0.3SHW(**)	580-2404-0-**-	21	7.8	5.4	6.0	6.63	7.3
FH26W-23S-0.3SHW(**)	580-2405-2-**-	23	8.4	6.0	6.6	7.23	7.9
FH26W-25S-0.3SHW(**)	580-2406-5-**-	25	9.0	6.6	7.2	7.83	8.5
FH26W-27S-0.3SHW(**)	580-2400-9-**-	27	9.6	7.2	7.8	8.43	9.1
FH26W-29S-0.3SHW(**)	580-2407-8-**-	29	10.2	7.8	8.4	9.03	9.7
FH26W-31S-0.3SHW(**)	580-2408-0-**-	31	10.8	8.4	9.0	9.63	10.3
FH26W-33S-0.3SHW(**)	580-2409-3-**-	33	11.4	9.0	9.6	10.23	10.9
FH26W-35S-0.3SHW(**)	580-2410-2-**-	35	12.0	9.6	10.2	10.83	11.5
FH26W-37S-0.3SHW(**)	580-2411-5-**-	37	12.6	10.2	10.8	11.43	12.1
FH26W-39S-0.3SHW(**)	580-2412-8-**-	39	13.2	10.8	11.4	12.03	12.7
FH26W-41S-0.3SHW(**)	580-2413-0-**-	41	13.8	11.4	12.0	12.63	13.3
FH26W-45S-0.3SHW(**)	580-2414-3-**-	45	15.0	12.6	13.2	13.83	14.5
FH26W-51S-0.3SHW(**)	580-2415-6-**-	51	16.8	14.4	15.0	15.63	16.3
FH26W-57S-0.3SHW(**)	580-2417-1-**-	57	18.6	16.2	16.8	17.43	18.1
FH26W-61S-0.3SHW(**)	580-2418-4-**-	61	19.8	17.4	18.0	18.63	19.3
FH26W-71S-0.3SHW(**)	580-2419-7-**-	71	22.8	20.4	21.0	21.63	22.3

Note 1 : Embossed tape reel packaging(5,000pieces/reel, 500pieces/reel). Order by number of reels.



OV7675 VGA product brief



Higher Performance, Feature Rich VGA Sensor to Support Fast Growing Emerging Markets



available in a lead free package

The OV7675 is a high performance VGA sensor designed specifically to address growing demand for consumer electronics from emerging markets. Its small optical format enables ultra-thin camera modules, which, combined with its excellent low-light performance, make it a very attractive solution for entry-level and mainstream mobile phones, notebooks, netbooks and webcams.

The OV7675 is a low-voltage color CMOS image sensor that supports the full functionality of a single chip VGA (640 x 480) camera in a small footprint package. The 1/9-inch OV7675 uses a unique 2.5-micron OmniPixel3-HS™ pixel design, which allows it to offer best-in-class low-light sensitivity (1800 mV/lux-sec), significantly reduced noise and outstanding color reproduction.

The OV7675 provides full frame, sub-sampled, windowed images in VGA, QVGA and QQVGA formats via the control of the serial camera control bus (SCCB) interface. Its image array is capable of operating at up to 30 frames per second (fps) in full VGA resolution with complete user control over image quality, formatting and output data transfer.

All required image processing functions, including exposure control, gamma, white balance, color saturation, hue control, defective pixel canceling, noise canceling are programmable through the SCCB interface. In addition, OmniVision image sensors use proprietary sensor technology to improve image quality by reducing or eliminating common lighting/electrical sources of image contamination, such as fixed pattern noise and smearing to produce a clean, fully stable color image.

Find out more at www.ovt.com.

Applications

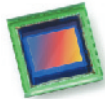
- Mobile Phones
- Notebooks/Netbooks and Webcams

Product Features

- support for image sizes: VGA (640 x 480), QVGA (320 x 240) and QQVGA (160 x 120)
- support for output formats: YUV4:2:2, RAW RGB, ITU656, RGB565
- digital video port (DVP) parallel output interface
- on-chip phase lock loop (PLL)
- built-in 1.5V regulator for core
- capable of maintaining register values at power down
- programmable controls for frame rate, mirror and flip, AEC/AGC, and windowing
- support for horizontal and vertical sub-sampling
- automatic image control functions:
 - automatic exposure control (AEC)
 - automatic white balance (AWB)
 - automatic black level calibration (ABLC)
- image quality controls: defect pixel correction and lens shading correction
- support for black sun cancellation
- standard serial SCCB interface
- parallel I/O tri-state configurability and programmable polarity
- module size: 6 mm x 6 mm

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OV7675



Ordering Information

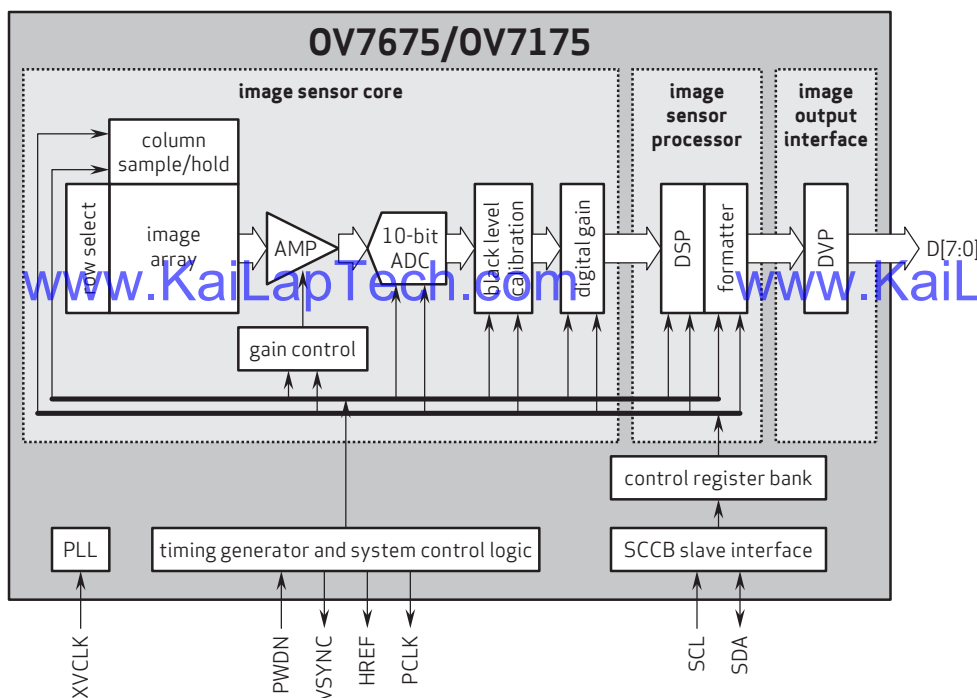
- OV07675-A23A (color, lead-free, 23-pin CSP3)
- OV07675-G04A (color, chip probing, 200 μm backgrinding, reconstructed wafer)
- OV07175-A23A (B&W, lead-free, 23-pin CSP3)

Product Specifications

- active array size: 640 x 480
- power supply:
 - analog: 2.6 - 3.0 V
 - core: 1.5 V ±5% (internal regulator)
 - I/O: 1.71 - 3.0 V
- power requirements:
 - active: 98 mW
 - standby: 60 μW
- temperature range:
 - operating: -30°C to 70°C junction temperature
 - stable image: 0°C to 50°C junction temperature
- output formats: YUV422, RAW RGB, ITU656, RGB565
- lens size: 1/9"
- lens chief ray angle: 21°
- input clock frequency: 1.5 - 27 MHz
- scan mode: progressive
- maximum image transfer rate:
 - VGA: 30 fps
 - QVGA: 60 fps
 - QQVGA: 240 fps
- sensitivity: 1800 mV/lux-sec
- shutter: rolling shutter
- max S/N ratio: 38 dB
- dynamic range: 71 dB @ 8x gain
- maximum exposure interval: 510 x t_{row}
- pixel size: 2.5 μm x 2.5 μm
- dark current: 10 mV/s @ 60°C junction temperature
- image area: 1640 μm x 1220 μm
- package dimensions:
 - CSP3: 2815 μm x 2825 μm
 - COB: 2830 μm x 2840 μm

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Functional Block Diagram



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OmniVision



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							
FREQ		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							



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Cameras Applications



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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
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



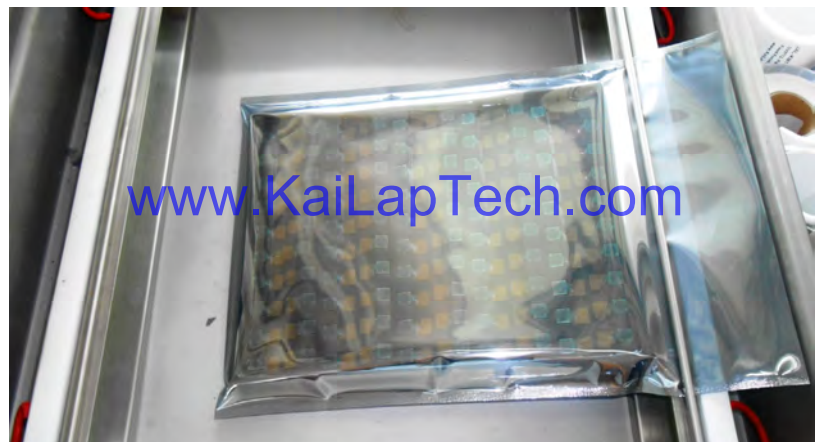
Cover Tray with Lid



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**





CMOS CAMERA MODULES



your BEST camera module partner

Large Order Package Solution

Place Foam Sheets Between Trays

Foam Sheets are Slightly Larger than Trays



www.KaiLapTech.com

www.KaiLapTech.com

Place Foam Sheets and Trays into Box

Foam Sheets are Tightly Fitting Box



www.KaiLapTech.com sales@KaiLapTech.com Tel: (852) 6908 1256 Fax: (852) 3017 6778

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CMOS CAMERA MODULES



your BEST camera module partner

Small Order Package Solution

Place Foam Sheets and Trays into Small Box



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www.KaiLapTech.com

Package in Small Box for Shipment

Foam Sheets are Nicely Fitting the Small Box



www.KaiLapTech.com

www.KaiLapTech.com

Place Small Boxes into Larger Box



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www.KaiLapTech.com

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



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.

www.KaiLapTech.com

www.KaiLapTech.com



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.





CMOS CAMERA MODULES



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KLT Strength

Powerful Factory



Professional Service



Promised Delivery



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