

YDS-KN6-OV5640-1B V3.1

5MP OmniVision OV5640-1B MIPI Interface Auto Focus Camera Module



Front View



Back View

Specifications

Camera Module No.	YDS-KN6-OV5640-1B V3.1
Resolution	5MP
Image Sensor	OV5640-1B
Sensor Type	1/4"
Pixel Size	1.4 um x 1.4 um
EFL	3.29 mm
F.NO	2.80
Pixel	2592 x 1944
View Angle	68.7°(DFOV) 58.1°(HFOV) 45.0°(VFOV)
Lens Dimensions	8.50 x 8.50 x 5.22 mm
Module Size	40.00 x 8.50 mm
Module Type	Auto Focus
Interface	MIPI
Auto Focus VCM Driver IC	Embedded
Lens Type	650nm IR Cut
Operating Temperature	-30°C to +70°C
Mating Connector	FH26W-25S-0.3SHW(60)



YDS-KN6-OV5640-1B V3.1

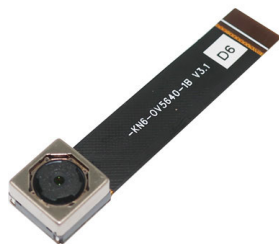
5MP OmniVision OV5640-1B MIPI Interface Auto Focus Camera Module



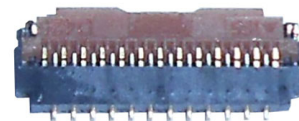
Top View



Side View



Bottom View

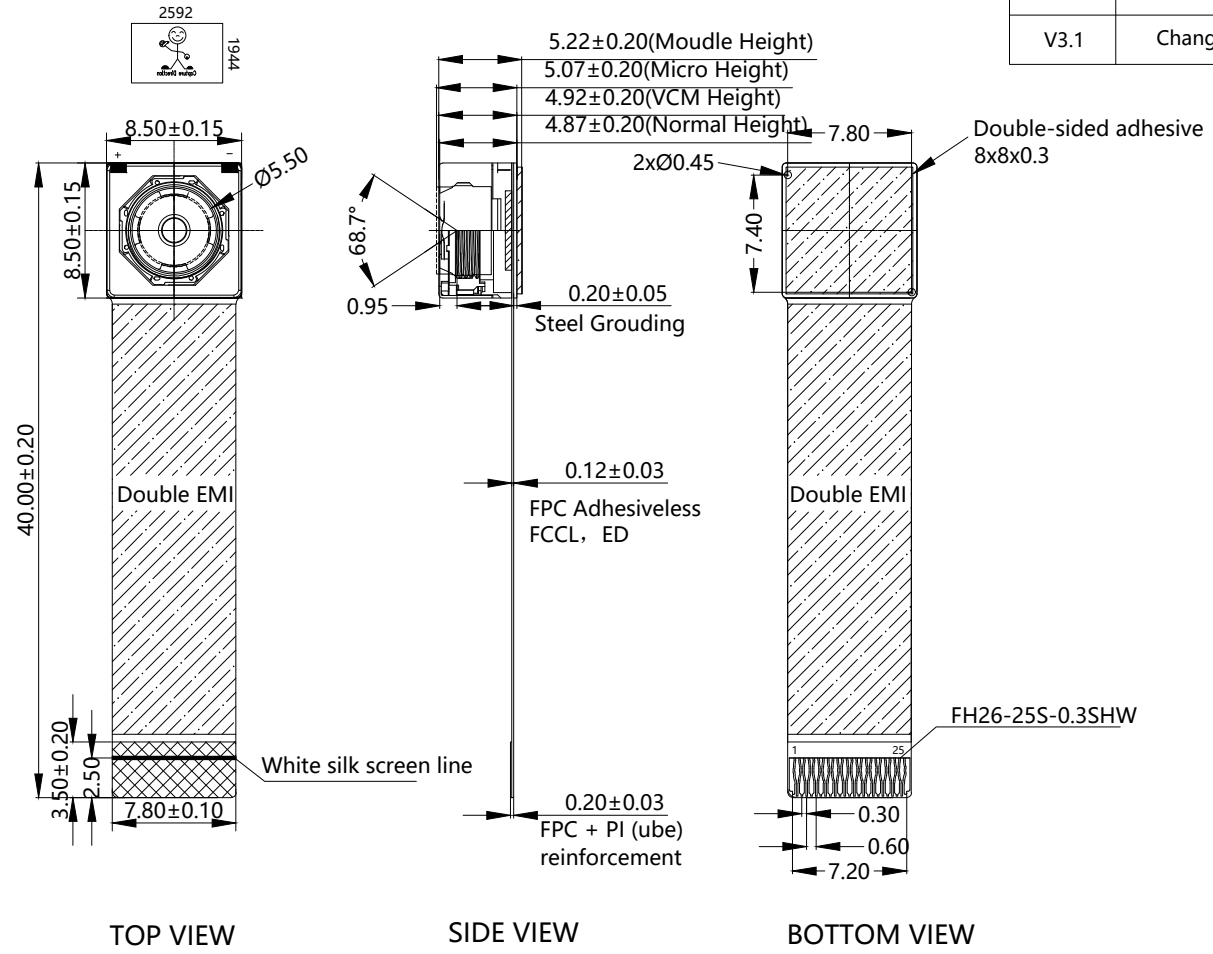


Mating Connector

RoHS

PIN	SIGNAL
1	AF-VDD2.8V
2	AF-GND
3	AVDD2.8V
4	AGND
5	DVDD1.5V/NC
6	DOVDD1.8V
7	MDP0
8	DGND
9	MDN0
10	DGND
11	MDP1
12	DGND
13	MDN1
14	DGND
15	MCP
16	DGND
17	MCN
18	DGND
19	XCLK
20	SDA
21	SCL
22	STROBE
23	PWDN
24	RESET
25	DGND

Version	Information	Date
V1.0	First Version	6-1-2016
V2.1	Change lens	10-11-2019
V3.1	Change FPC length	5-26-2023



Parameters:

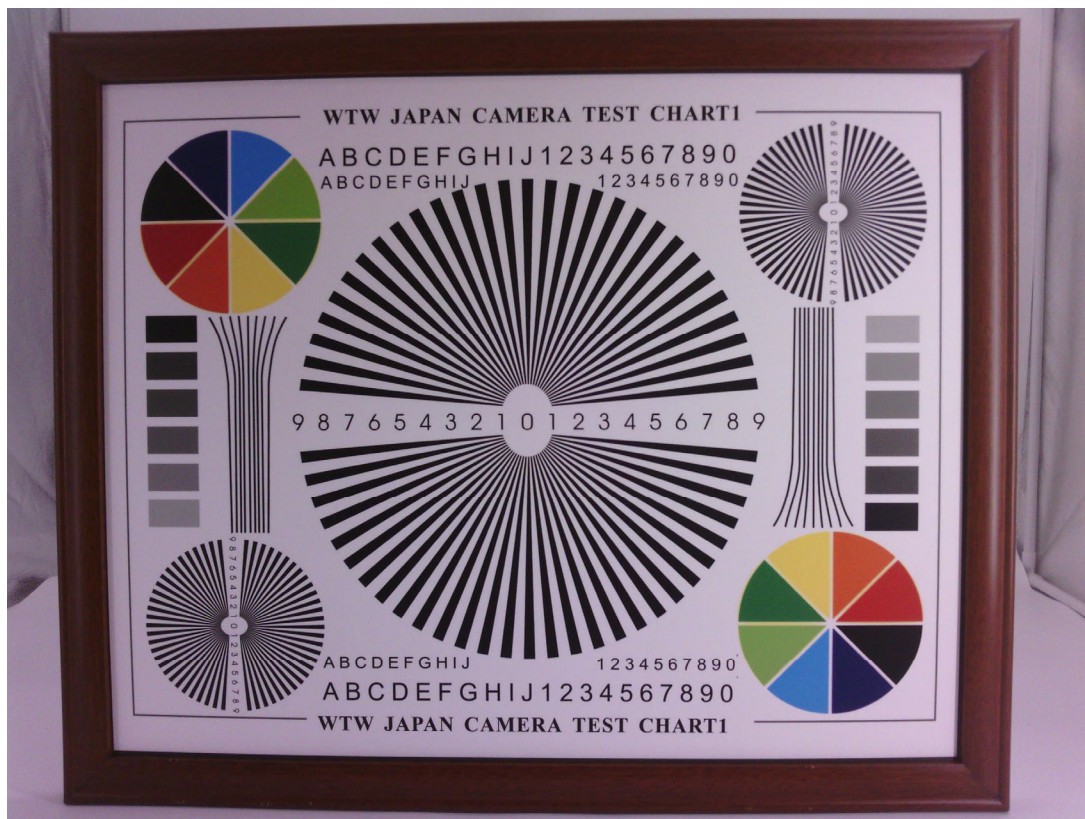
1、 Sensor specification:
 Image Sensor: OV5640-1B
 Pixel: 1.4um*1.4um
 Lens Type: 1/4
 Important Voltage Description:
 DVDD1.5V (internal power supply);

2、 Lens specification:
 FOV: 68.7°(D);58.1°(H);45°(V)
 F/NO.: 2.8
 TV distortion: <1.0%
 Focal length: 3.29mm
 Composition: 4P+IR FILTER
 IR Cut Coating: 650nm±10nm@50%

Designed By	Kevin	Model Name:	KN6-OV5640-1B V3.1		
Checked By	Aouly_Yan	Projection Type:	Unit:	Material: -----	
		Third Angle	mm	Scale:	Sheet:
			1:1	1 of 1	1/0

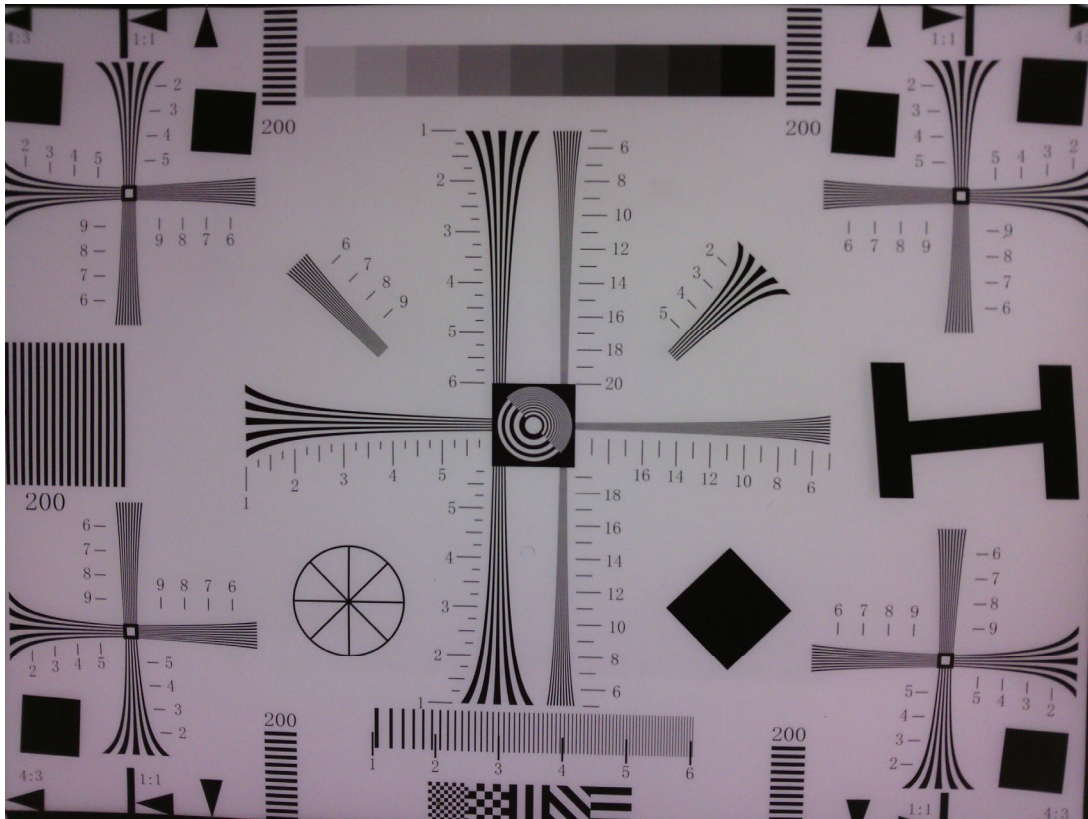
Real Test Images

KN6-OV5640-1B V3.1



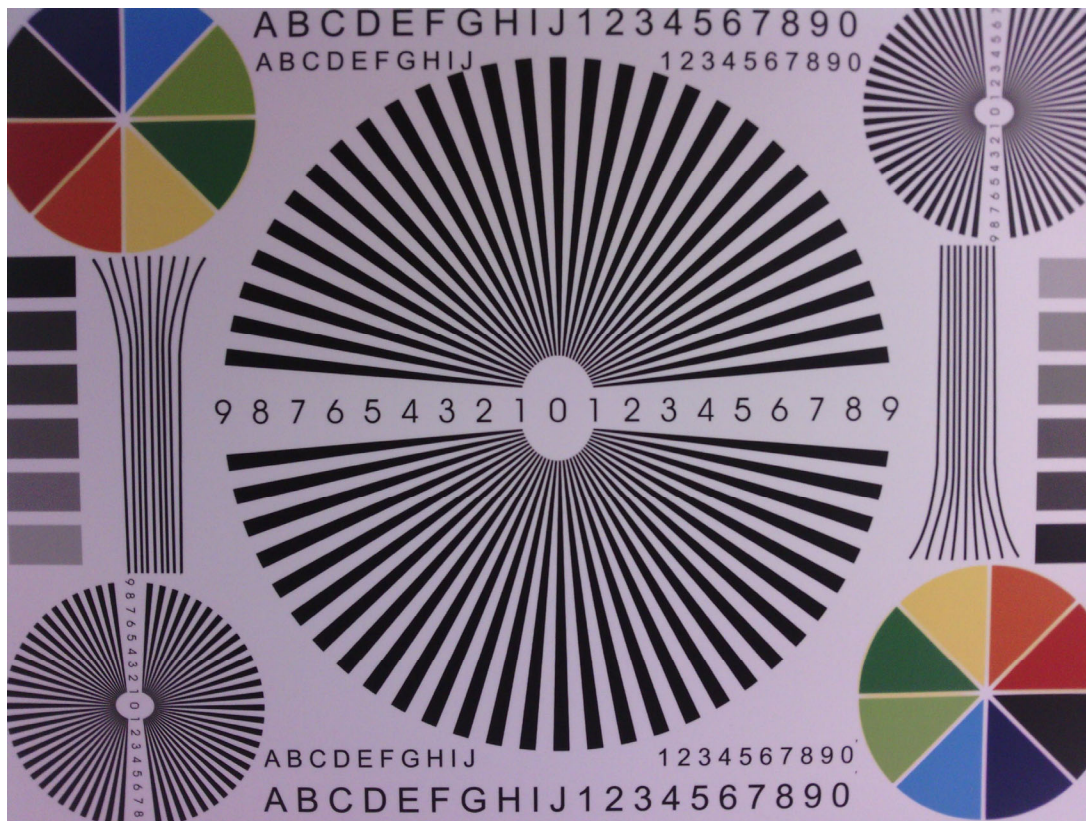
Real Test Images

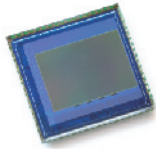
KN6-OV5640-1B V3.1



Real Test Images

KN6-OV5640-1B V3.1





OV5640 5-megapixel product brief



1/4-inch, 5-Megapixel SOC Image Sensor Optimized for High-Volume Mobile Markets



available in
a lead-free
package

The OV5640 delivers a complete 5-megapixel camera solution on a single chip, aimed at offering cost efficiencies that serve the high-volume autofocus (AF) camera phone market. The system-on-a-chip (SOC) sensor features OmniVision's 1.4 micron OmniBSI™ backside illumination architecture to deliver excellent pixel performance and best-in-class low-light sensitivity, while enabling ultra compact camera module designs of 8.5 mm x 8.5 mm with <6 mm z-height. The OV5640 provides the full functionality of a complete camera, including anti-shake technology, AF control, and MIPI while being easier to tune than two-chip solutions, making it an ideal choice in terms of cost, time-to-market and ease of platform integration.

The OV5640 enables 720p HD video at 60 frames per second (fps) and 1080p HD video at 30 fps with complete user control over formatting and output data transfer. The 720p/60 HD video is captured in full field of view (FOV) with 2 x 2 binning, which doubles the sensitivity and improves the signal-to-noise ratio (SNR). Additionally, a unique post-binning re-sampling filter function removes zigzag artifacts around slant edges and minimizes spatial artifacts to deliver even sharper, crisper

color images. To further improve camera performance and user experience, the OV5640 features an internal anti-shake engine for image stabilization, and it supports Scalado™ tagging for faster image preview and zoom.

The OV5640 offers a digital video port (DVP) parallel interface and a high-speed dual lane MIPI interface, supporting multiple output formats. An integrated JPEG compression engine simplifies data transfer for bandwidth-limited interfaces. The sensor's automatic image control functions include automatic exposure control (AEC), automatic white balance (AWB), automatic band filter (ABF), 50/60 Hz automatic luminance detection, and automatic black level calibration (ABLC). The OV5640 delivers programmable controls for frame rate, AEC/AGC 16-zone size/position/weight control, mirror and flip, cropping, windowing, and panning. It also offers color saturation, hue, gamma, sharpness (edge enhancement), lens correction, defective pixel canceling, and noise canceling to improve image quality.

Find out more at www.ovt.com.

applications

- cellular phones
- toys
- PC multimedia
- digital still cameras

ordering information

- OV05640-A71A-1B** (color, lead-free)
71-pin CSP

features

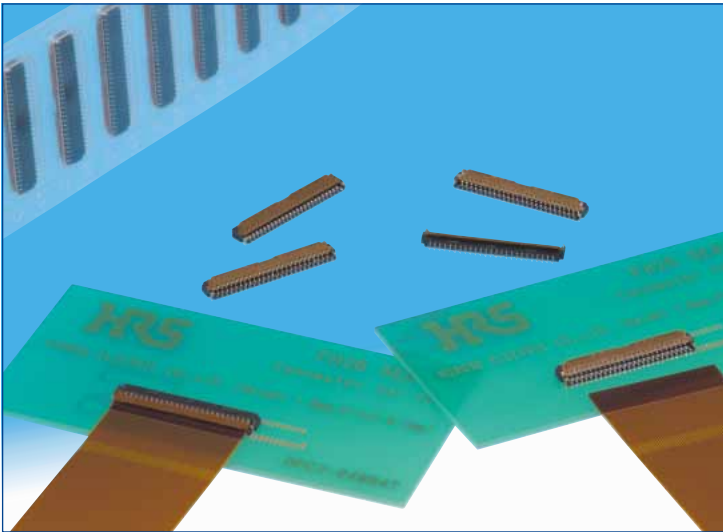
- 1.4 μm x 1.4 μm pixel with OmniBSI technology for high performance (high sensitivity, low crosstalk, low noise, improved quantum efficiency)
- optical size of 1/4"
- automatic image control functions: automatic exposure control (AEC), automatic white balance (AWB), automatic band filter (ABF), automatic 50/60 Hz luminance detection, and automatic black level calibration (ABLC)
- programmable controls for frame rate, AEC/AGC 16-zone size/position/weight control, mirror and flip, cropping, windowing, and panning
- image quality controls: color saturation, hue, gamma, sharpness (edge enhancement), lens correction, defective pixel canceling, and noise canceling
- support for output formats: RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422, and compression
- support for video or snapshot operations
- support for internal and external frame synchronization for frame exposure mode
- support for LED and flash strobe mode
- support for horizontal and vertical sub-sampling, binning
- support for minimizing artifacts on binned image
- support for data compression output
- support for anti-shake
- standard serial SCCB interface
- digital video port (DVP) parallel output interface and dual lane MIPI output interface
- embedded 1.5V regulator for core power
- programmable I/O drive capability, I/O tri-state configurability
- support for black sun cancellation
- support for images sizes: 5 megapixel, and any arbitrary size scaling down from 5 megapixel
- support for auto focus control (AFC) with embedded AF VCM driver
- embedded microcontroller
- suitable for module size of 8.5 x 8.5 x <6mm with both CSP and RW packaging

key specifications (typical)

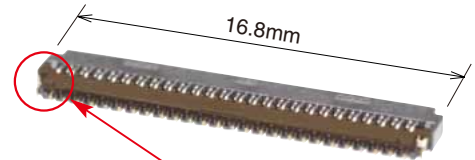
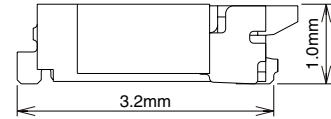
- active array size:** 2592 x 1944
- power supply:**
 - core: 1.425 ~ 1.675V (with embedded 1.5V regulator)
 - analog: 2.6 ~ 3.0V (2.8V typical)
 - I/O: 1.8V / 2.8V
- power requirements:**
 - active: 140 mA
 - standby: 20 μA
- temperature range:**
 - operating: -30°C to 70°C junction temperature (see [table 8-2](#))
 - stable image: 0°C to 50°C junction temperature (see [table 8-2](#))
- output formats:** 8-/10-bit RGB RAW output
- lens size:** 1/4"
- lens chief ray angle:** 24° (see [figure 10-2](#))
- input clock frequency:** 6~27 MHz
- max S/N ratio:** 36 dB
- dynamic range:** 68 dB @ 8x gain
- maximum image transfer rate:**
 - QSXGA (2592x1944): 15 fps
 - 1080p: 30 fps
 - 1280x960: 45 fps
 - 720p: 60 fps
 - VGA (640x480): 90 fps
- sensitivity:** 600 mV/Lux-sec
- shutter:** rolling shutter / frame exposure
- maximum exposure interval:** 1964 x t_{ROW}
- pixel size:** 1.4 μm x 1.4 μm
- dark current:** 8 mV/s @ 60°C junction temperature
- image area:** 3673.6 μm x 2738.4 μm
- package dimensions:** 5985 μm x 5835 μm

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

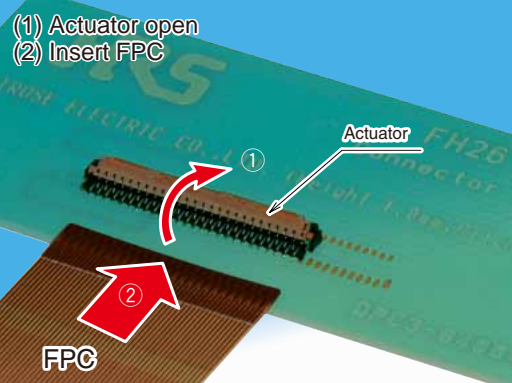
The standard packaging is 5,000 pieces per reel, but it is also offered in a 500 piece reel. (The outer diameter of the reel will be ϕ 180 mm in this case.)

●Can be mounted over conductive traces.

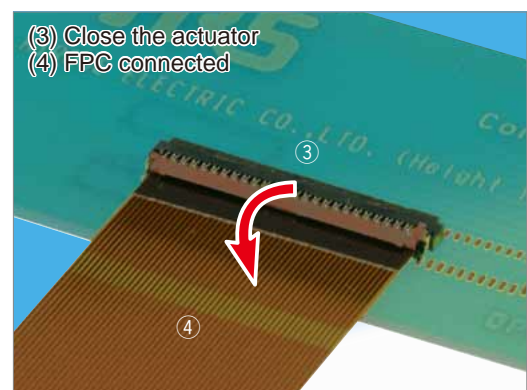


No exposed contacts on the bottom of the connector

●Operation



(3) Close the actuator
(4) FPC connected



■ Specifications

Rating	Current rating	0.2A DC	Operating temperature range -55 °C to +85°C (Note 1) Operating humidity range Relative humidity 90% max. (No condensation)	Storage temperature range -10°C to +50°C (Note 2) Storage humidity range Relative humidity 90% max.
	Voltage rating	30V AC		

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 1μs. 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

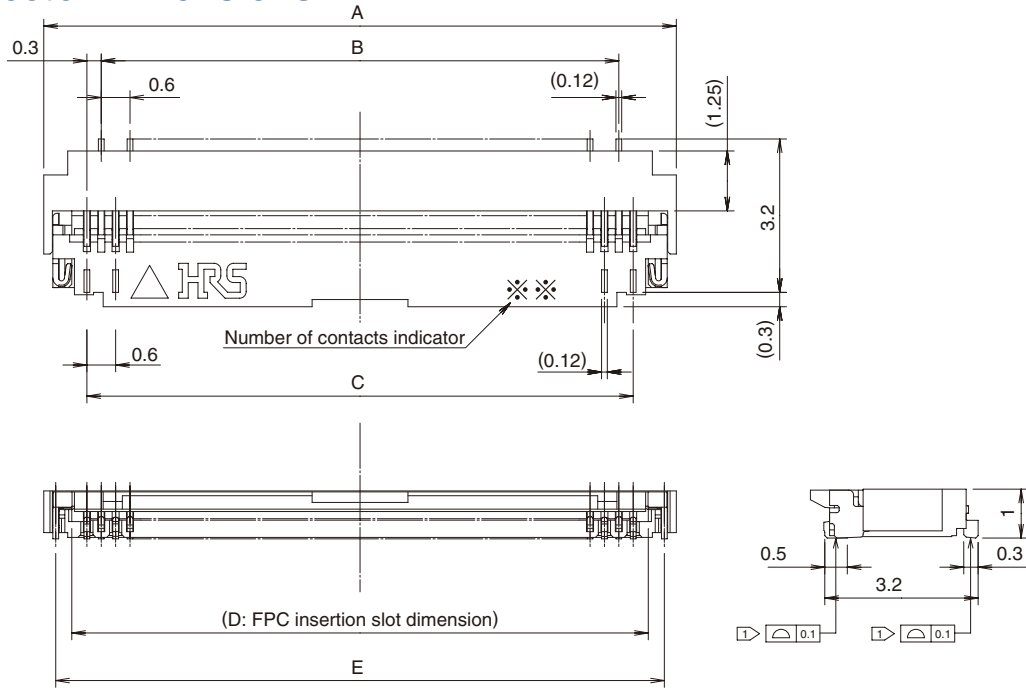
Part	Material	Finish	Remarks
Insulator	LCP	Color: Black	UL94V-0
	PA	FH26 series: Deep brown FH26W series: Light brown	
Contacts	Phosphor bronze	Gold plating	_____
Metalfittings		Pure tin reflow plating	_____

■ Ordering information

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

① Series name: FH	⑥ Termination type SHW: SMT horizontal staggered mounting type ⑦ Specifications (10)...Gold plating with nickel barrier, 5,000 pieces / reel (99)...Gold plating with nickel barrier, 500 pieces / reel
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	

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.

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



YDS CAMERA MODULE

your best camera partner

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

www.YDSCAM.com sales@ydscam.com Phone (WeChat, QQ): (+86) 177 2732 6718

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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



Camera Inspection Standard

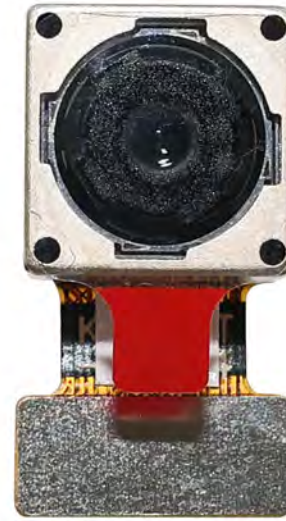
Inspection Item		Inspection Method	Standard of Inspection		
Category	Item				
Appearance	FPC/ PCB	Color	The Naked Eye	Major Difference is Not Allowed.	
		Be Torn/Chopped	The Naked Eye	Copper Crack Exposure is Not Allowed.	
		Marking	The Naked Eye	Clear, Recognizable (Within 30cm Distance)	
	Holder	Scratches	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		

YDSCAM Package Solutions

YDS Camera Module



Complete with Lens Protection Film



Tray with Grid and Space

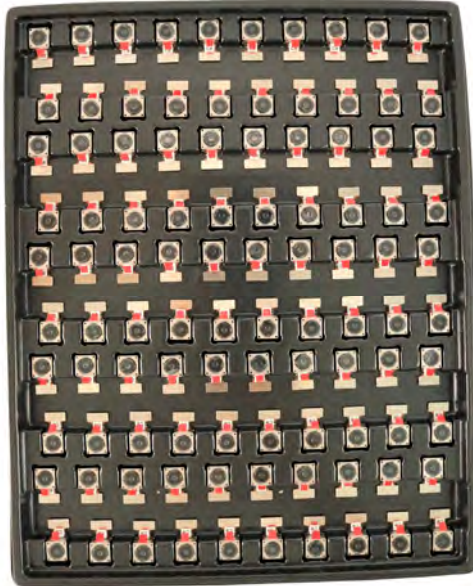


Place Cameras on the Tray

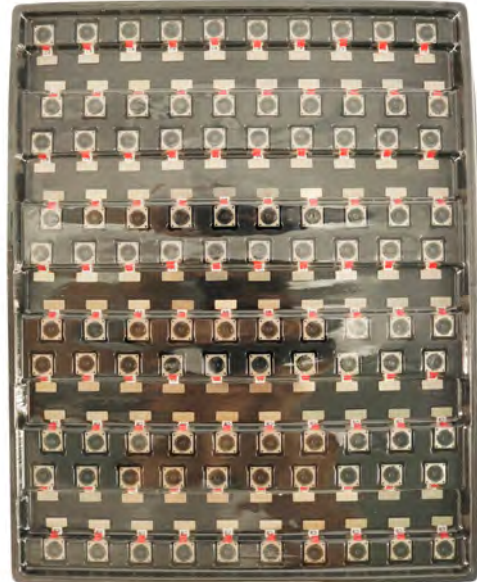


YDSCAM Package Solutions

Full Tray of Cameras



Cover Tray with Lid



Place Tray into Anti-Static Bag



Vacuum the Anti-Static Bag



YDSCAM Package Solutions

Sealed Vacuum Anti-Static Bag with Labels

1. Model and Description 2. Quantity 3. Manufacturing Date Code 4. Caution



YDSCAM Package Solutions

Place Foam Sheets Between Tray Bags



Foam Sheets are Larger Than Trays



Place Foam Sheets and Trays into Box



Foam Sheets are Tightly Fitting in Box



Seal the Carbon Box



Label the Carbon Shipping Box





YDSCAM Package Solutions

USB Camera Module

Complete with Lens Protection Film



Place Camera Sample into Anti-Static Bag

Place USB Cameras into Tray



Seal the Tray with Anti-Static Bag

Label the Carbon Shipping Box



YDSCAM Package Solutions

Place Camera Sample into Anti-Static Bag



Place Connectors into Anti-Static Bag



Label the Sample Bags



Place Connectors into Reel



Place Samples into the Carbon Box



Place Connectors into the Carbon Box





YDS CAMERA MODULE

your best camera partner

Company YDSCAM

YingDeShun Co. Ltd. (YDS) was established in 2017, a next-generation technology driven manufacturer specialized in research, design, and produce of audio and video products. YDS is occupying 20,000 square feet automated plants with 100 employees of annual throughput 30,000,000 units cameras.

YDS 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. YDS 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

YDS provides the following limited warranty if you purchased the Product(s) directly from YDS company or from YDS's website www.YDSCAM.com. Product(s) purchased from other sellers or sources are not covered by this Limited Warranty. YDS 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, YDS 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 YDS is solely limited to repair and/or replacement on the terms set forth above. YDS is not reliable or responsible for any subsequent events.



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YDS CAMERA MODULE

your best camera partner

YDS Strength

Powerful Factory



Professional Service



Promised Delivery



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