Approval Sheet

300K Pixels OV7690 Camera Module

Customer module NO:YA081016

Version:1.0

General Specification

Sensor Type		1/13'' CMOS sensor
Active Array Size		640(V)x480(V)
Pixel Size		1.75umx1.75um
Output Format		YUV4:2:2/YCbCr4:2:2
		RGB565
		Raw RGB Data
Max Frame Rate	VGA（640x480）	30fps
	QVGA(320x240)	60fps
External Clock Rate		6~27MHZ (24MHZ for Typ.)
Power Supply	Analog	2.6V-3.0VDC
	I/O	1.61V-1.89V
Power Consumption	Active	100Mw typical(30fps)
	Standby	TBD
Sensitivity		960mV(Lux.sec)
S/N Ratio		38dB
Dynamic Range		66dB
Gamma Correction		Programmable
Scan Mode		Progressive
Temperature Range	Operation	-30℃-70℃
	Stable Image	0℃-50℃

Optical Specification

Lens component	2P+1 IR
BFL	2.1 +/-0.1mm
F number	2.8
Distortion	<1%
Relative I11umination	>50%
Thread Size	M3.5x*0.3P
SEMI-Field Angle	60.7 degreed
IR-Filter	650 +/-10nm
EFFL	1.19mm

Pin Description

Pin Number	Name	Pin Type	Function/Description
01	NC	-	No connection
02	AGND	Power	A/D Converter ground, array decoder ground
03	SIOD	I/O	SCCB Serial interface data I/O
04	AVDD	Power	2.8V Supply for sensor analog
05	SIOC	Input	SCCB Serial interface clock input
06	NC	-	No connection
07	VSYNC	Output	Vertical sync output when chip is in master mode
08	PWDN	Input(0)a	Power Down mode enable, active high
09	HREF	Output	Horizontal reference HREF output
10	NC	-	No connect
11	DOVDD	Power	1.8V Supply for digital video port
12	D7	Output	Video port output bit(7)
13	XCLK	Input	System clock input
14	D6	Output	Video port output bit(6)
15	DGND	Power	Digital video port ground
16	D5	Output	Video port output bit(5)
17	PCLK	PCLK	Pixel clock output
18	D4	Output	Video port output bit(4)
19	D0	Output	Video port output bit(0)

Pin Description

Pin Number	Name	Pin Type	Function/Description
20	D3	Output	Video port output bit(3)
21	D1	Output	Video port output bit(1)
22	D2	Output	Video port output bit(2)
23	NC	-	No connection
24	NC	-	No connection

a. input (0) represents an internal pull-down low resistor.

BACK VIEW

PIN24

PIN1

2,9
11,5
0,3
0,5
0,5

SIDE VIEW

0,27
2,8

FRONT VIEW

R1,75
R2,25

12,5
4,5
4,5
5,4
7
16

注：
1. 未彫锐角处皆为 **R0.2mm**
2. 未标注公差处采用 **A级公差**。
3. SENSOR OV7690
4. UNIT: mm

OV7690FSL

NC
NC
NC
D2
D1
D3
D0
D4
PCLK
D5
DGND
D6
XCLK
D7
DOVDD
NC
HREF
PWDN
VSYNC
SICC
SIOD
AVDD
AGND
NC

PIN24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
PIN1