Color image sensor heads for multi-function IA6008-FA22A

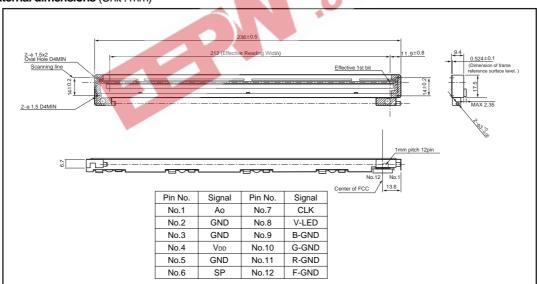
"Color contact image sensor" with optical system intended for Flatbed scanning. Optical technology established for sheet-feed scanning has been further advanced for Flatbed scanning.

Applications

Image sensor heads device for multiple function facsimiles such as color scanner and multiple function printer.

Features

- 1) Signal amplifier is built in to the image sensor IC in order to increase immunity to external noise.
- 2) Additionally, newly developed analog memory circuit and realizes high speed scanning.
- 3) The LED light source is mounted on the same substrate as the sensor chip which makes it possible to package the device with lighter weight and an extremely small size.
- 4) With the proprietary prism, the output signal is maintained uniformly.
- 5) The ceramic substrate is used for excellent dimensional accuracy and thermal stability



•External dimensions (Unit : mm)

Contact image sensor heads

Characteristics

Parameter	Symbol	Тур.	Unit
Effective scanning width	-	212	mm
Primary scan dot density	-	600	dpi
Total dot number	-	5160	dots
Power supply voltage	Vdd	5	V
Scanning speed	SLT	6.6	ms / line
Clock frequency	CLK	1.25	MHz *
Maximum dynamic range	VRmax	0.5	V
Minimum dynamic range	VRmim.	0.25	V
Dark output	Vod	1.73±0.45	V
Operating temperature	-	5 to 45	°C

*Analog signals are output at the double rate of clock frequency.

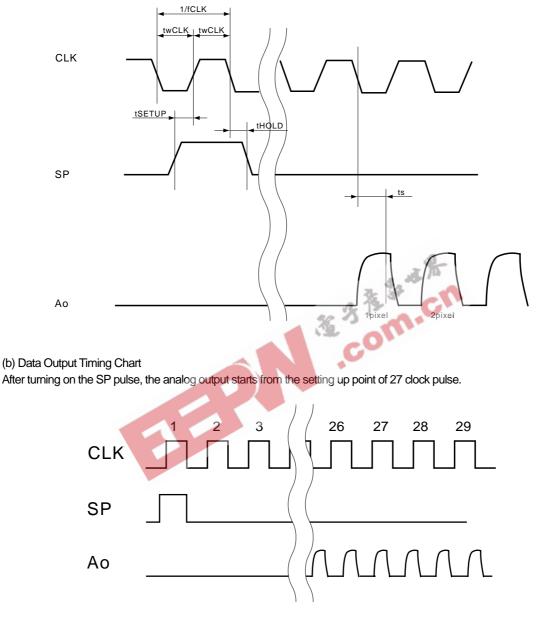
Pin assignments

	-			
No.	Circuit	1/0	Function	. P.
1	Ao	0	Analog output	15
2	GND	I	Ground	2 3 3 3 × 5
3	GND	I	Ground	212 0
4	Vdd	I	Power supply	
5	GND	I	Ground	CO.
6	SP	I	Start pulse	
7	CLK	I	Clock	
8	V-LED	I	LED power supply	
9	B-GND	1	BLUE LED ground	
10	G-GND		GREEN LED ground	
11	R-GND	i	RED LED ground	
12	F-GND	1	Frame ground	

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Timing chart

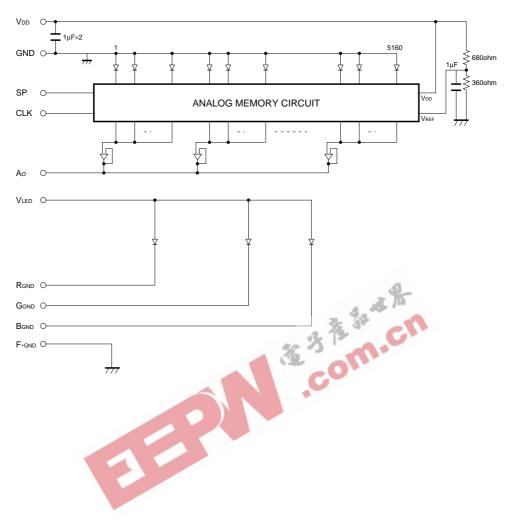
(a) CLK Timing Chart



Note) The CLK section area which is over the effective pixel numbers (Output blank part) cannot be used as the analog Output standard level.

Contact image sensor heads

Equivalent circuit



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