Monochrome image sensor head (300 dpi)

IA3008-MB10A

The IA3008-MB10A is a state-of-the-art compact, lightweight image sensor head that resulted from the combination of ROHM's LSI circuit technology and thermal printhead mounting technology. The IA3008-MB10A is perfect for multi-function printers (MFP) or facsimiles that print on normal paper using laser units.

Applications

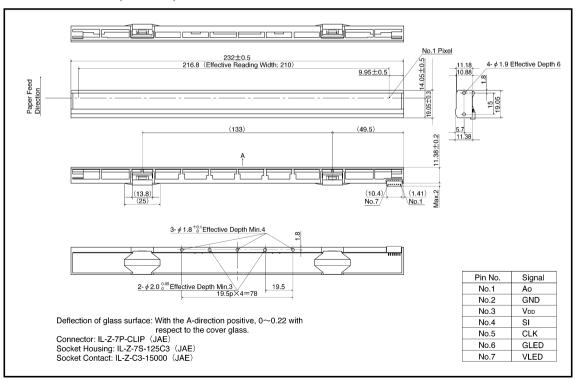
Facsimiles

Image scanning devices

Features

- 1) The amplifiers, resistors, capacitors, and other discrete components that were normally externally attached, are built into the sensor IC.
- Compact body and lightweight achieved by the placement of the LED light source and sensor IC on the same board.
- 3) Uses a special flame that provides superior light gathering characteristics and uniform light dispersion.
- 4) Uses a ceramic board as the base board for minimal temperature fluctuations and uniform thermal dispersion.

External dimensions (Units: mm)



Characteristics

Parameter	Symbol	Тур.	Unit
Effective scanning width	_	210	mm
Primary scan dot density	_	300	DPI
Total dot number	_	2560	dots
Power supply voltage	V _{DD}	5	V
Scanning speed	SLT	2.5	ms / line
Clock frequency	CLK	1.5	MHz
Maximum dynamic range	VR Max.	2.4	V
Minimum dynamic range	VR Min.	V _R Max.×1.5	V
Dark output	Vod	0.6~1.8	mV
Operating temperature	_	5~45	°C

Pin assignments

No.	Circuit	1/0	Functions
1	Ao	0	Analog output
2	GND	1	Ground
3	V _{DD}	I	Power supply
4	SI	- 1	Serial-in
5	CLK	1	Clock
6	GLED	I	LED ground
7	VLED	I	LED power supply

Timing chart

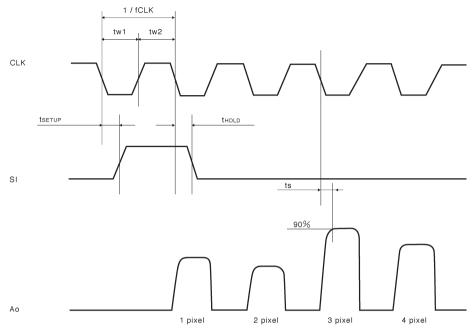


Fig.1

●Equivalent circuit

