

For Packaging High-speed Printers AH Series AH2001-DK50A

Data Sheet

Ideal for packaging printers requiring high reliability.

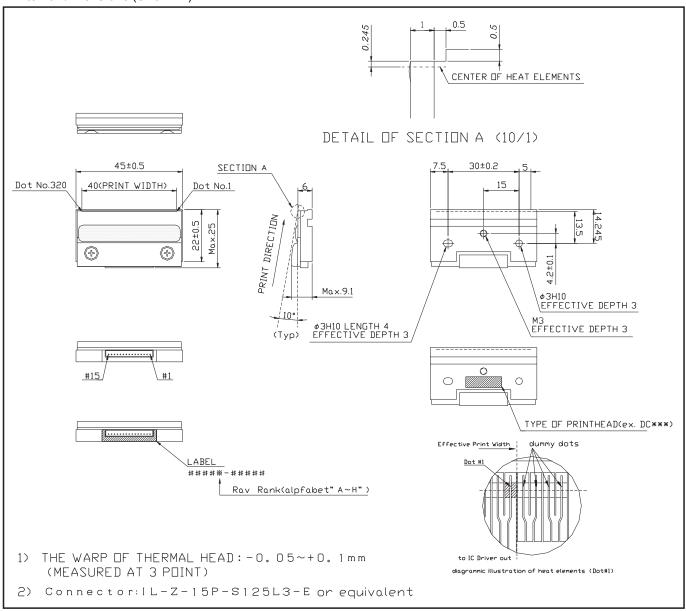
Applications

Distribution / Food label printers Packaging printers Date-code printers

Features

These thermal heads feature a near-edge structure based on the high-speed, high-quality, reliable step-free SE, SF series, enabling straight path for hand media or high speed printing

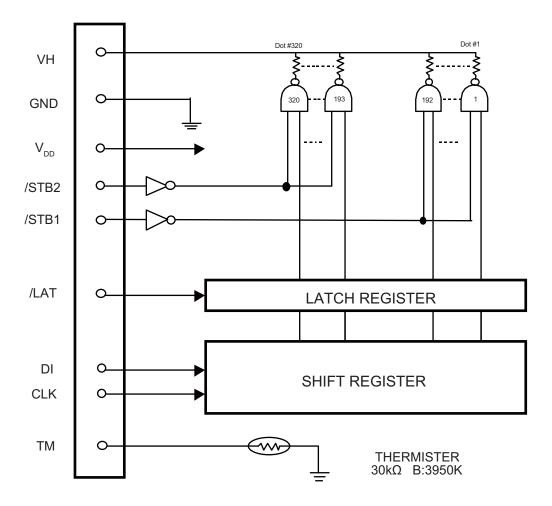
●External dimensions (Unit : mm)



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●Equivalent circuit

AH2001-DK50A



DI, STB DIVISION DOT No. CORRESPONDENCE

DI No.	DOT No.	
DI	320 to 1	

/STB No.	DOT No.
/STB 2	320 to 193
/STB 1	192 to 1

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Pin assignments

Connector A: IL-Z-15P-S125L3-E (JAE) or equivalent

No.	Circuit		
1	V _H		
2	V _H		
3	/LAT		
4	GND		
5	GND		
6	/STB1		
7	V_{DD}		
8	/STB2		
9	TM		
10	GND		
11	GND		
12	DI		
13	CLK		
14	V _H		
15	V _H		

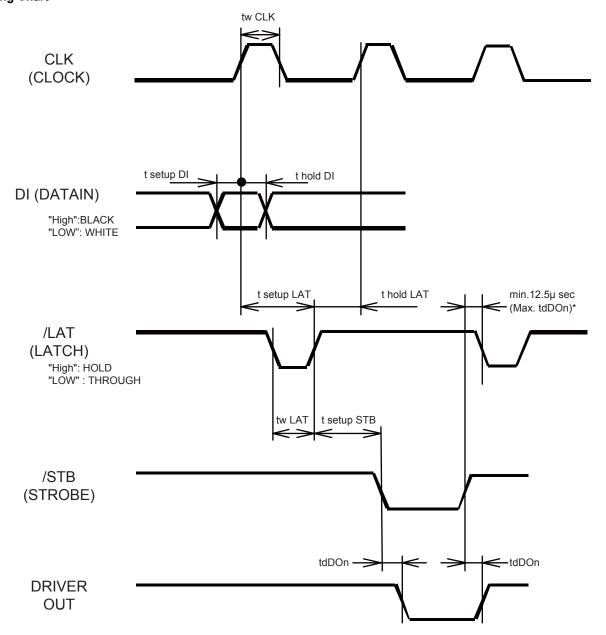
Pin number : Refer to External dimensions

DI: Data In (Serial Input) CLK : Clock Pulse(Max Transfer Frequency) /LAT: Data Latch

TM: Thermistor /STBn: Strobe

V_{DD}: Power Supply for Driver IC N.C.: Non Connection

• Timing Chart



^{*}If delay time for Driver Out can not be secured enough, there is a possibility that VH would fluctuate greatly. Please design the circuit so that VH does not exceed peak voltage (Vp).

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Characteristics

Parameter	symbol	Typical	Unit
Effective printing width	-	40	mm
Dot pitch	-	0.125	mm
Total dot number	-	320	dots
Average resistance value	R _{ave}	850	Ω
Applied voltage	V _H	12	V
Applied power	Ро	0.15	W/dot
Print cycle	SLT	2	ms/line
Pulse width	T _{ON}	1.5	ms
Maximum number of dots energized simultaneously	-	320	dots
Maximum clock frequency	-	10	MHz
Maximum platen diameter	-	∞	mm
Running life / pulse life	-	50/1×10 ⁸	Km/pulse
Operating temperature	-	5 to 45	°C

Notes

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