

# For Packaging High-speed Printers AH Series AH2004-DC50A

Data Sheet

Ideal for packaging printers requiring high reliability.

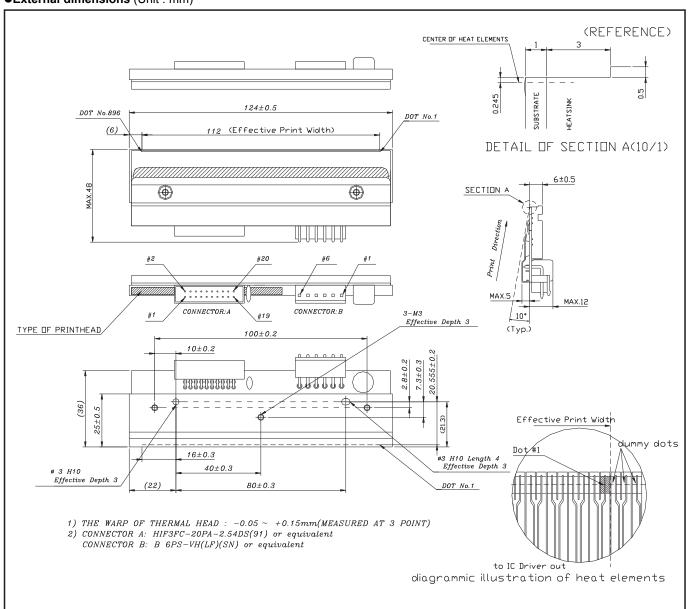
#### Applications

Distribution / Food label printers Packaging printers Date-code printers

#### Features

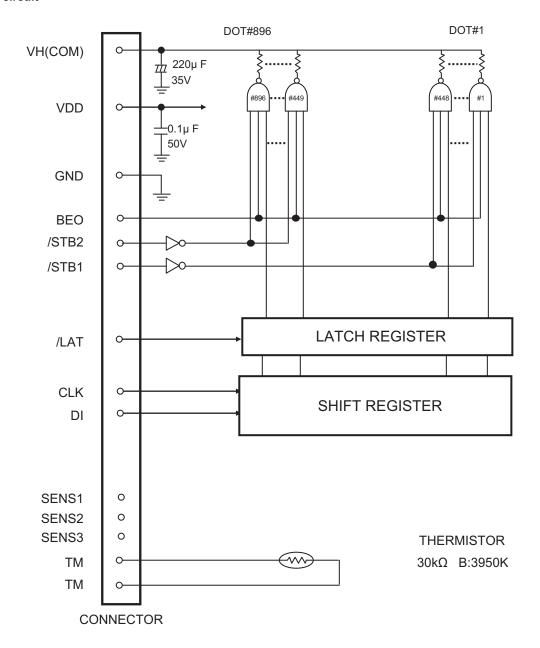
These thermal heads feature a near-edge structure based on the high-speed, high-quality, step-free SE, SF series, enabling straight path for hand media or high speed printing

### ●External dimensions (Unit : mm)



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#### ●Equivalent circuit



## DI, STB DIVISION DOT No. CORRESPONDENCE

DI No.	DOT No.	
DI	896 to 1	

/STB No.	DOT No.		
/STB 2	896 to 449		
/STB 1	448 to 1		

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#### Pin assignments

Connector A: HIF3FC-20PA-2.54DS(91) or equivalent

No.	Circuit	No.	Circuit	
1	$V_{DD}$	2	BEO	
3	GND	4	DI	
5	N.C.	6	CLK	
7	/LAT	8	GND	
9	GND	10	N.C.	
11	N.C.	12	GND	
13	$V_{DD}$	14	/STB2	
15	/STB1	16	TM	
17	TM	18	SENS1	
19	SENS2	20	SENS3	

#### CONNECTOR B: B6PS-VH-2.2(LF)(SN) or equivalent

No.	Circuit	No.	Circuit	
1	V <sub>H</sub>	2	V <sub>H</sub>	
3	V <sub>H</sub>	4	GND	
5	GND	6	GND	

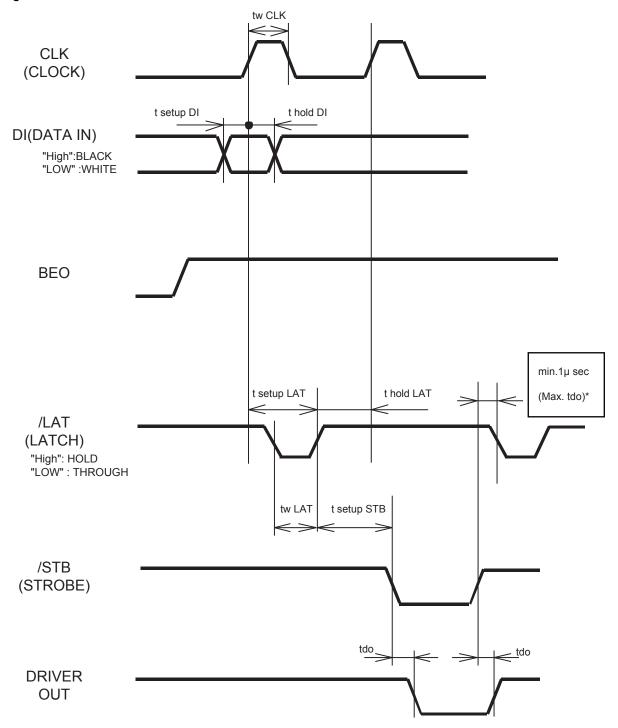
Pin number : Refer to External dimensions

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

TM: Thermistor /STBn: Strobe

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

#### • Timing Chart



<sup>\*</sup>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	-	112	mm
Dot pitch	-	0.125	mm
Total dot number	-	896	dots
Average resistance value	R <sub>ave</sub>	850	Ω
Applied voltage	V <sub>H</sub>	24	V
Applied power	Ро	0.58	W/dot
Print cycle	SLT	1.5	ms/line
Pulse width	T <sub>ON</sub>	0.37	ms
Maximum number of dots energized simultaneously	-	896	dots
Maximum clock frequency	-	10	MHz
Maximum platen diameter	-	∞	mm
Running life / pulse life	-	50/1×10 <sup>8</sup>	Km/pulse
Operating temperature	-	5 to 45	°C

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