

Ideal for packaging printers requiring high reliability.

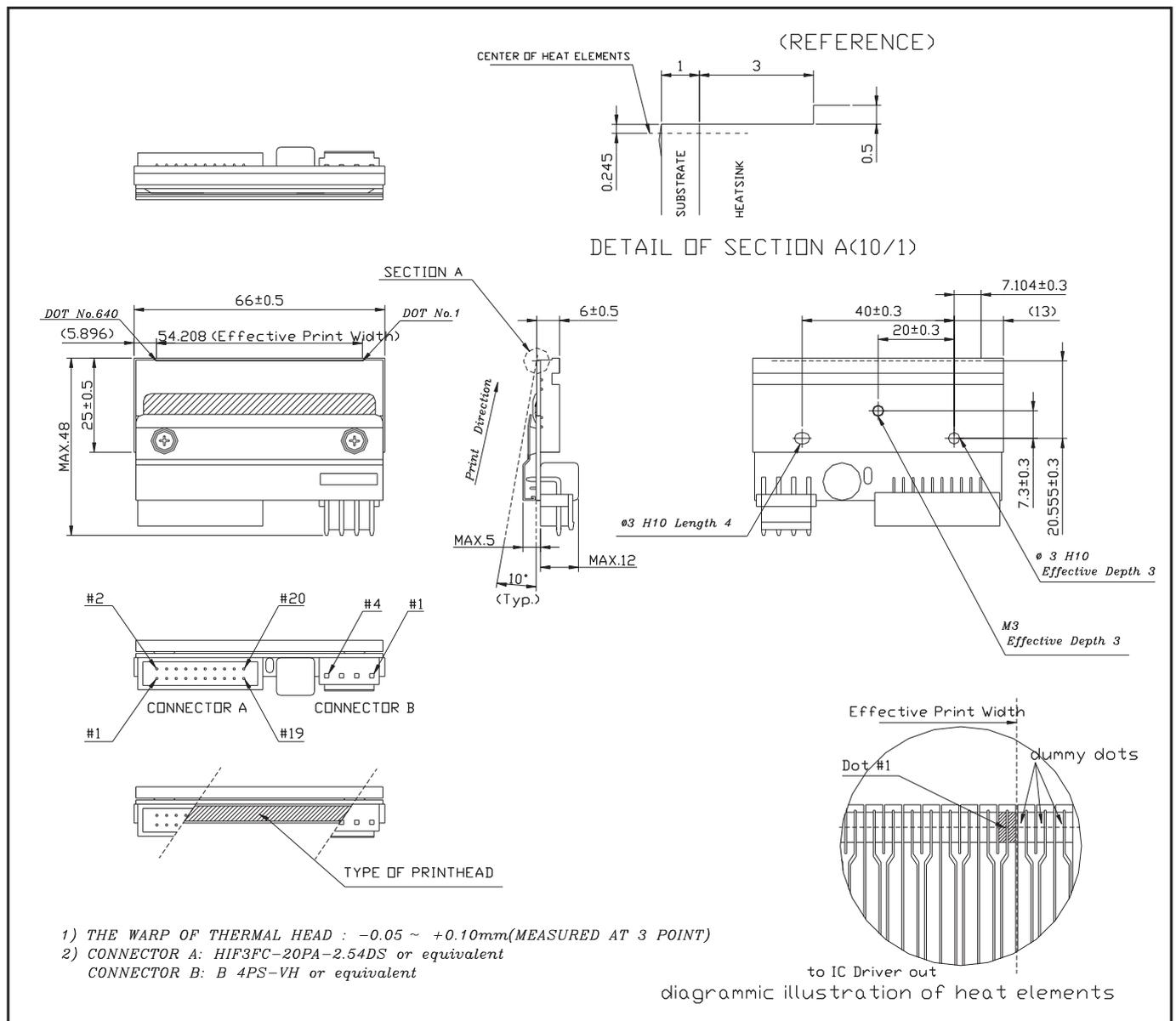
●Applications

Distribution / Food label printers
Packaging printers
Date-code printers

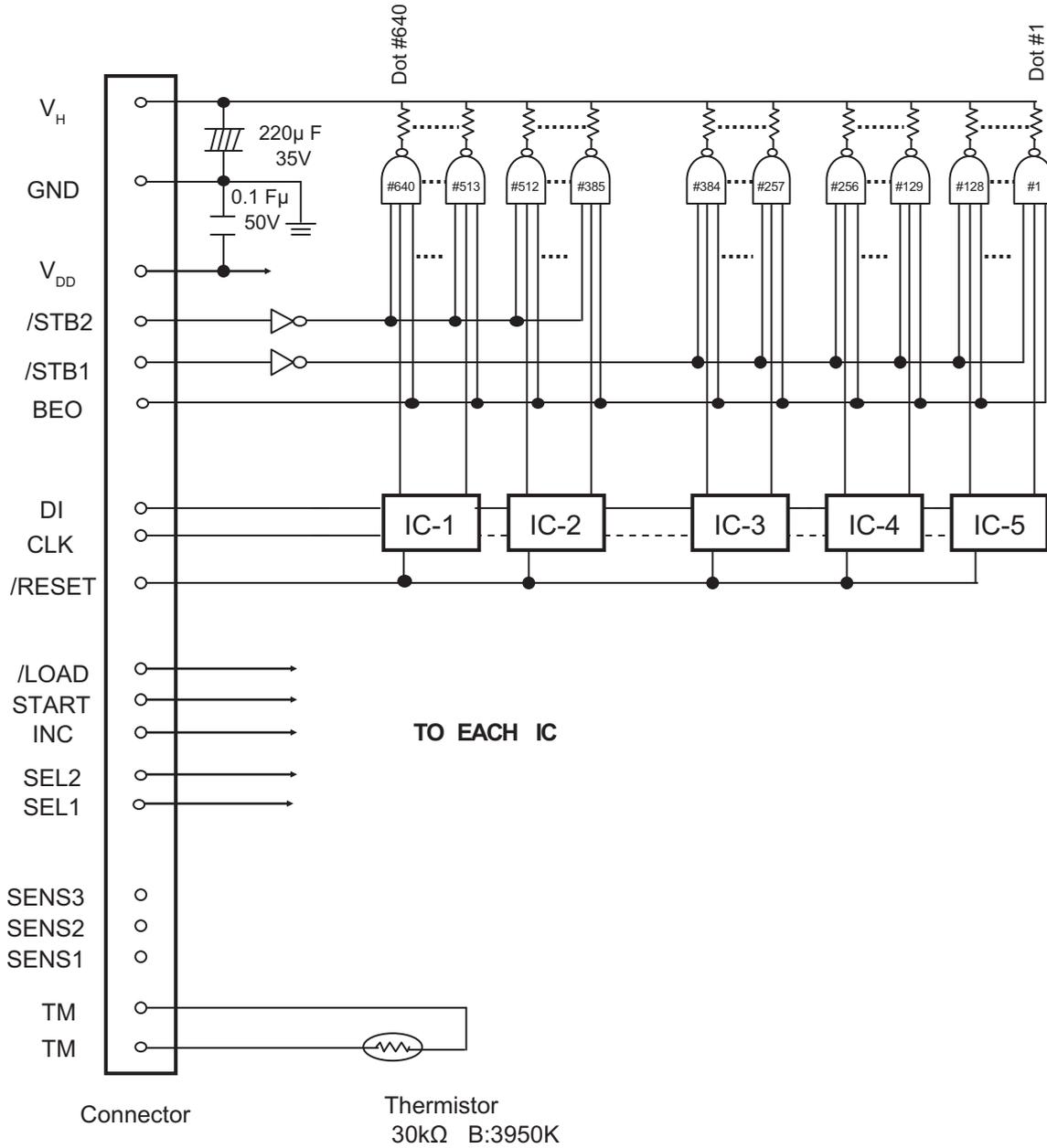
●Features

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)



●Equivalent circuit



DI, STB DIVISION DOT No. CORRESPONDENCE

DI No.	DOT No.
DI 1	640 to 1

/STB No.	DOT No.
/STB 2	640 to 385
/STB 1	384 to 1

●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	GND	6	CLK
7	/LOAD	8	START
9	INC	10	N.C.
11	SEL2	12	SEL1
13	/RESET	14	/STB2
15	/STB1	16	TM
17	TM	18	SENS1
19	SENS2	20	SENS3

CONNECTOR B : B 6PS-VH (LF)(SN) or equivalent

No.	Circuit	No.	Circuit
1	V _H	2	V _H
3	GND	4	GND

Pin number : Refer to External dimensions

DI: Data In
 CLK: Clock Pulse
 /LOAD: Data Loading
 START: Data Transfer & Latch & Error Check
 TM: Thermistor/STBn: Strobe
 V_{DD}: Power Supply for Driver IC
 N.C.: Non Connection

Additional Functions;

INC: One increment steps up one level of energy control. (Refer to Timing Chart -2)

RESET: Reset Data and System. (ALL CLEAR STATUS) (Refer to Timing Chart -2)

SELn: Pre-Heating is done next heated dot by combination of SEL1, SEL2.

SEL 1	SEL 2	Function
L	L	NO PRE-HEAT
H or OPEN	L	PRE-HEATING FROM LEVEL 4
L	H or OPEN	PRE-HEATING FROM LEVEL 5
H or OPEN	H or OPEN	PRE-HEATING FROM LEVEL 6

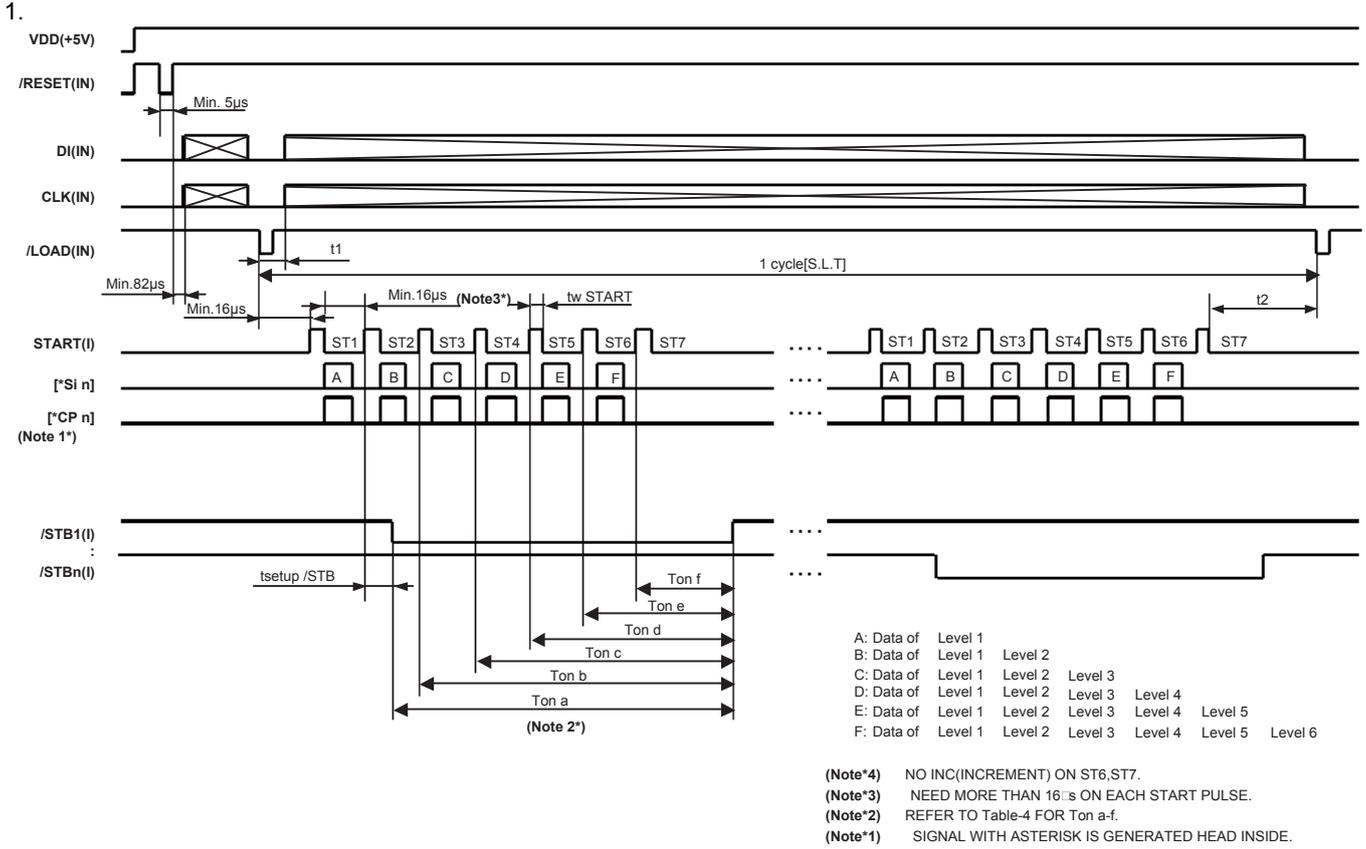
(Note)

Each /LOAD, INC and START signal detect dropping edge.

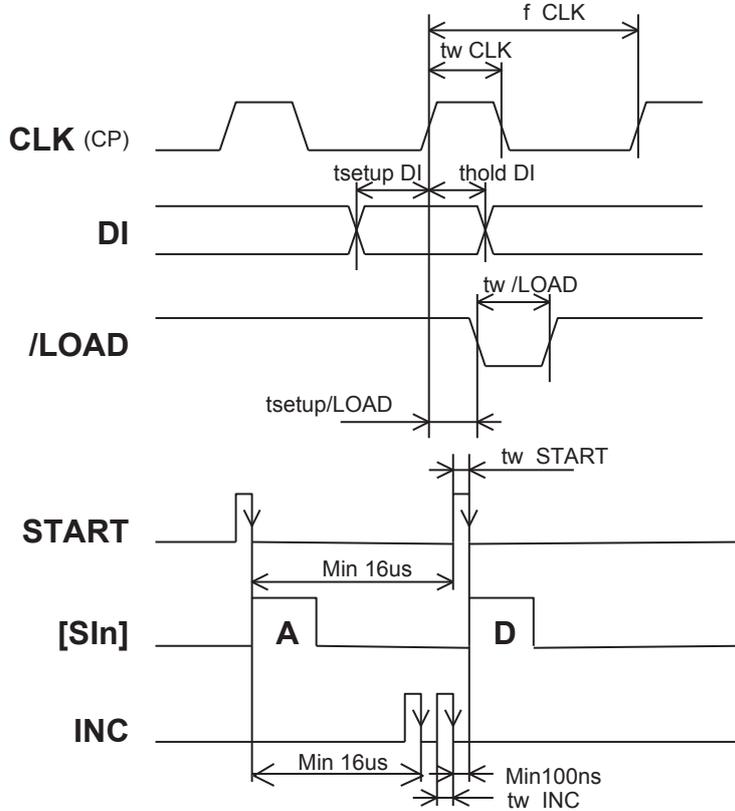
START signal shift history data generated in driver IC when dropping and LATCH when standing up.

(Refer to Timing Chart -2)

● Timing Chart



2.



●Characteristics

Parameter	symbol	Typical	Unit
Effective printing width	-	54.208	mm
Dot pitch	-	0.0847	mm
Total dot number	-	640	dots
Average resistance value	R_{ave}	1250	Ω
Applied voltage	V_H	24	V
Applied power	P_o	0.419	W/dot
Print cycle	SLT	0.416	ms/line
Maximum number of dots energized simultaneously	-	640	dots
Maximum clock frequency	-	8	MHz
Maximum platen diameter	-	∞	mm
Running life / pulse life	-	$50/1 \times 10^8$	Km/pulse
Operating temperature	-	5 to 45	$^{\circ}\text{C}$

Notes

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