Near edge thermal printhead (300 dots / inch) NE3004-VA10A

The NE3004-VA10A is a near edge thin-film thermal printhead where the printing medium passes straight through. This printhead is capable of printing speeds up to 8 inch / second and is suited for label printers.

Applications

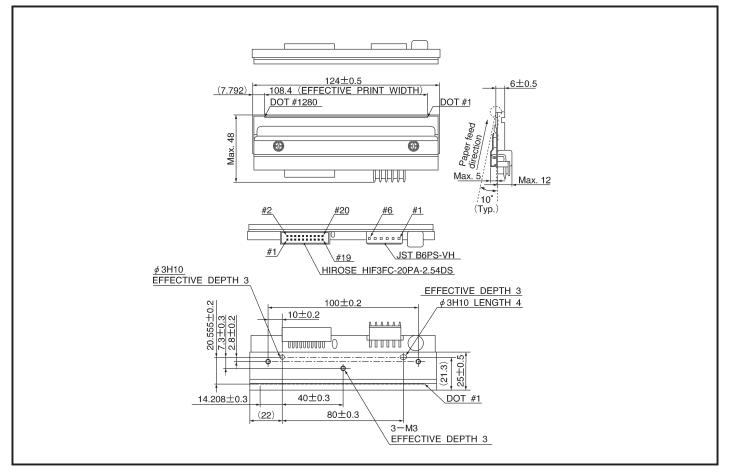
Bar code printers

Card printers

Ticket printers

- General purpose compact printers
- Features
- 1) Inclined toward the printing surface to provide excellent printing quality even for cards and thick paper.
- 2) Prints directly on printing medium that cannot be bent.
- 3) Using a hard conductive film as a protective film on the heading element offers excellent resistance to electrostatic damage.
- 4) Being low-profile when installed enables smaller printers.
- 5) Compatible with the NE2004-VA10A (8 dots / mm) in mechanical specifications, to facilitate the making of a series of printers.

External dimensions (Units: mm)



Note: No heat history control function inside the thermal printhead. External heat history control is required for high speed printing.



Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	_	108.4	mm
Dot pitch	_	0.0847	mm
Total dot number	—	1280	dots
Average resistance value	Rave	1250	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.41	W / dot
Print cycle	SLT	1.5	ms
Pulse width	Ton	0.31	ms
Maximum number of dots energized simultaneously	_	1280	dots
Maximum clock frequency	_	10	MHz
Maximum roller diameter	_	_	mm
Running life / pulse life	_	50 / 10 ⁸	km / pulses
Operating temperature	_	5~45	°C

Pin assignments

HIROSE

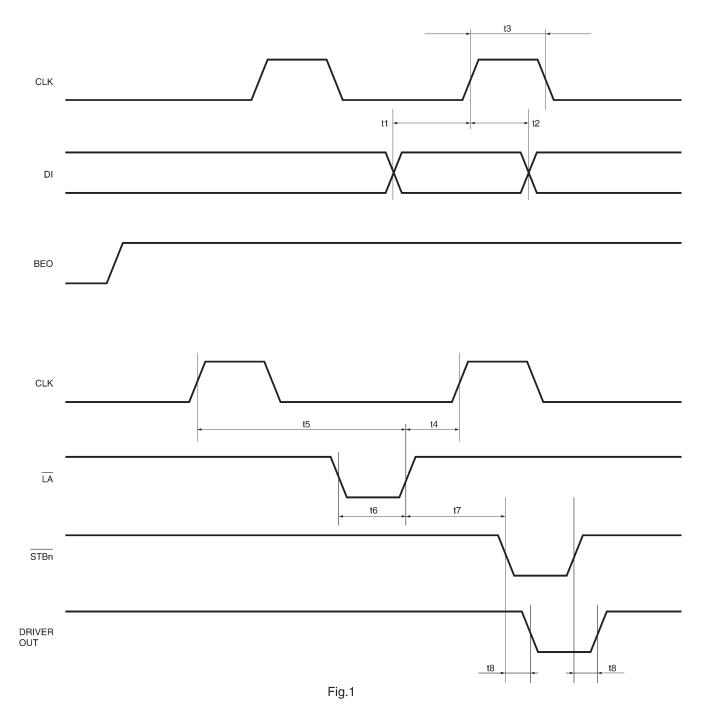
No.	Circuit	No.	Circuit
1	Vdd	2	BEO
3	GND	4	DI
5	N.C.	6	CLK
7	LA	8	GND
9	GND	10	N.C.
11	N.C.	12	GND
13	Vdd	14	STB2
15	STB1	16	ТМ
17	ТМ	18	SENS1
19	SENS2	20	SENS3

JST

No.	Circuit
1	VH
2	VH
3	VH
4	GND
5	GND
6	GND

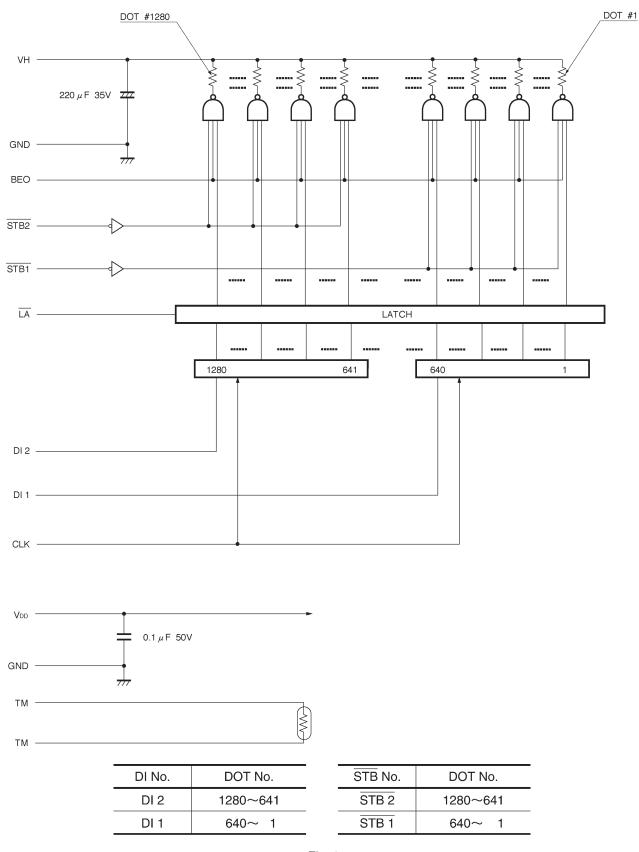
Printheads

Timing chart

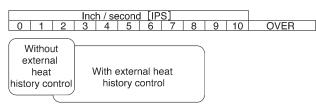




Equivalent circuit



Supported speeds chart



•Electrical characteristic curves

