

Tentative
Printheads

NF3002-VA30A
Under development

High speed thermal printhead (300 dots / inch)

NF3002-VA30A

NF-VA30 series are the thermal printheads developed for high-speed / high-resolution printing for the market of bar-code printer & scale-printer, based on "step-free" structure.

These printheads realize ultra-highspeed printing with long life & high reliability.

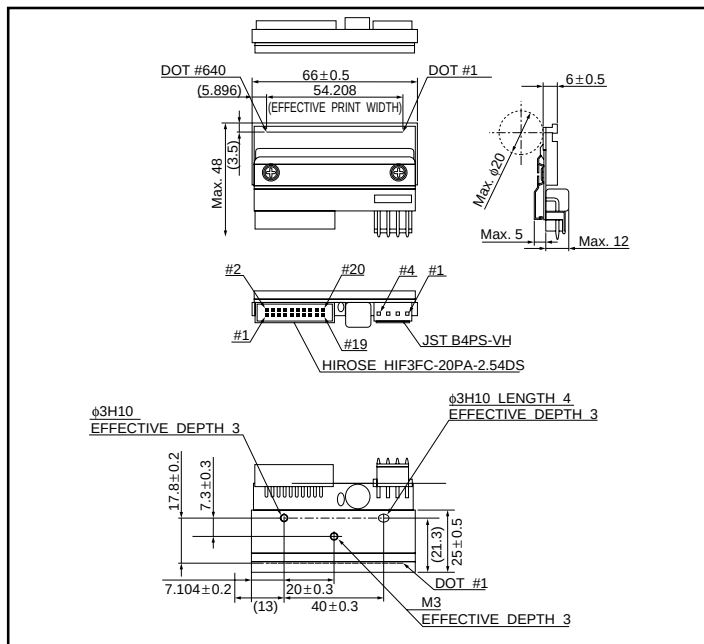
●Applications

Bar code printer
Label printer
Packaging printer
ATM
Ticket printer

●Features

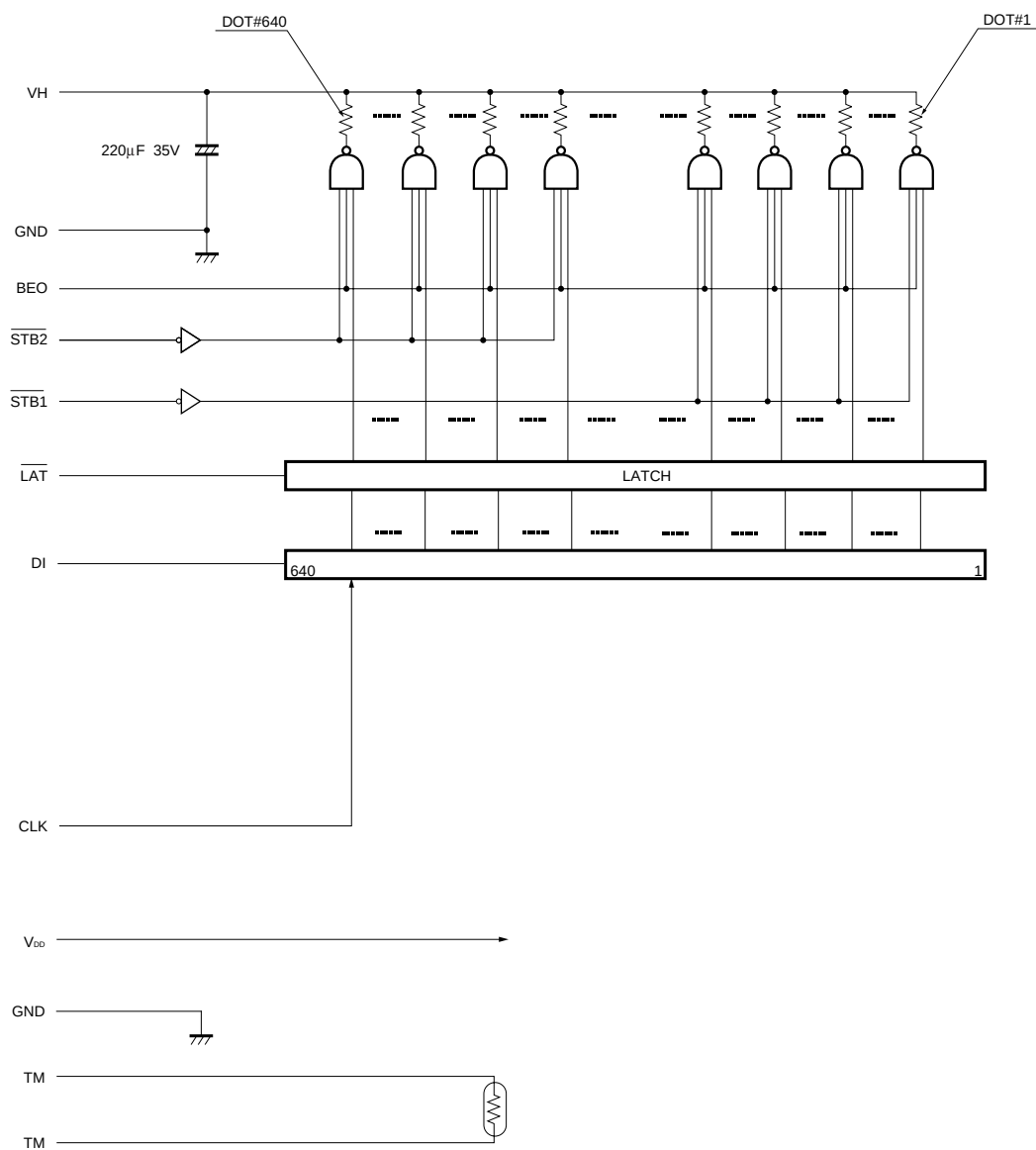
- 1) High dot reproducibility with step-free structure.
- 2) High-hardness protect cote type "W-coat" is employed with 150km abrasion life-time.
- 3) Even without history-control, high-speed printing more than 300mm / s can be achieved at 300dpi with clear print image. With history-control, 500mm / s printing is also possible at 300dpi.

●External dimensions (Unit : mm)



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

●Equivalent circuit



DI No.	DOT No.
DI	640 to 1

STB No.	DOT No.
STB2	640 to 321
STB1	320 to 1

●Pin assignments

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

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

●Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	—	54.2	mm
Dot pitch	—	0.0847	mm
Total dot number	—	640	dots
Average resistance value	R _{ave}	850	Ω
Applied voltage	V _H	24	V
Applied power	P _O	0.59	W / dot
Print cycle	SLT	0.28	ms
Maximum number of dots energized simultaneously	—	640	dots
Maximum clock frequency	—	8	MHz
Maximum roller diameter	—	φ20	mm
Running life / pulse life	—	150 / 10 ⁸	km / pulses
Operating temperature	—	5 to 45	°C

Notes

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