High speed thermal printhead (8 dots / mm) NB2004-VA10A

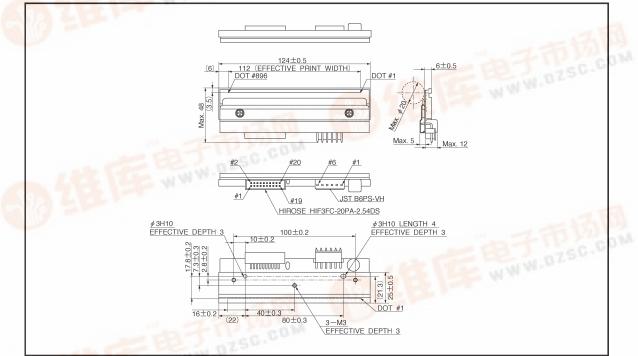
The NB2004-VA10A is a flat thin-film thermal printhead capable of printing speeds up to 12 inch / second, and suited for general purpose compact printers as well as label printers.

Applications
Bar code label printers
Ticket printers
General purpose compact printers

Features

- 1) Special glazed components for high speed, high quality printing.
- 2) High speed clock (10MHz) to facilitate external heat history control.
- 3) Using a hard conductive film as a protective film on the heating element offers excellent resistance to electrostatic damage.
- 4) Compatible with the NB3004-VA10A (300 dpi) 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.





NB2004-VA10A

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	-	112	mm
Dot pitch	_	0.125	mm
Total dot number	-	896	dots
Average resistance value	Rave	550	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.906	W / dot
Print cycle	SLT	0.98	ms
Pulse width	Τον	0.265	ms
Maximum number of dots energized simultaneously	-	896	dots
Maximum clock frequency	-	10	MHz
Maximum roller diameter	-	20	mm
Running life / pulse life	-	50 / 10 ⁸	km / pulses
Operating temperature	-	5~45	°C

Pin assignments

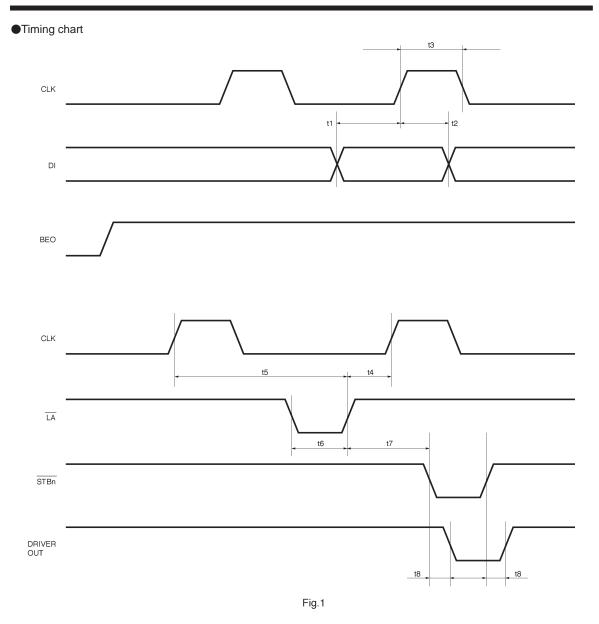
HIROSE

HIRUSE					
No.	Circuit	No.	Circuit		
1	Vdd	2	BEO		
3	GND	4	DI4		
5	DI3	6	CLK		
7	LA	8	GND		
9	GND	10	DI2		
11	DI1	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	

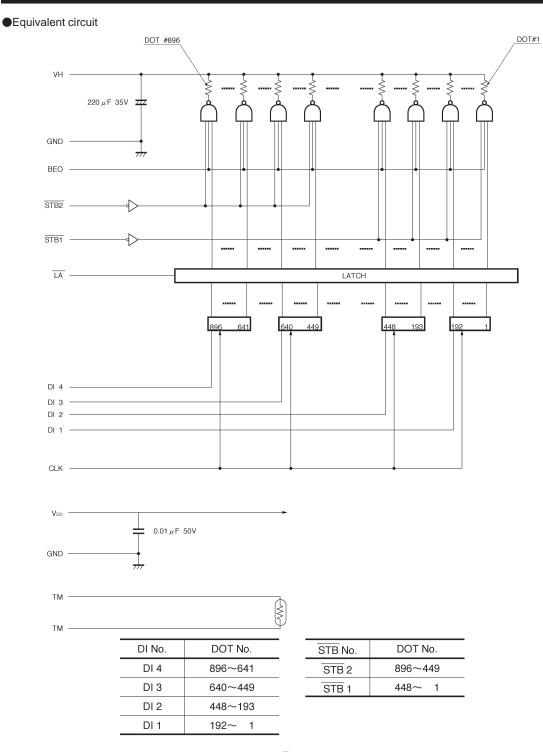
ROHM





ROHM

NB2004-VA10A





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ROHM

NB2004-VA10A

Supported speeds chart



Electrical characteristic curves

