# Near edge thermal printhead (8 dots / mm) NE2001-VA20A

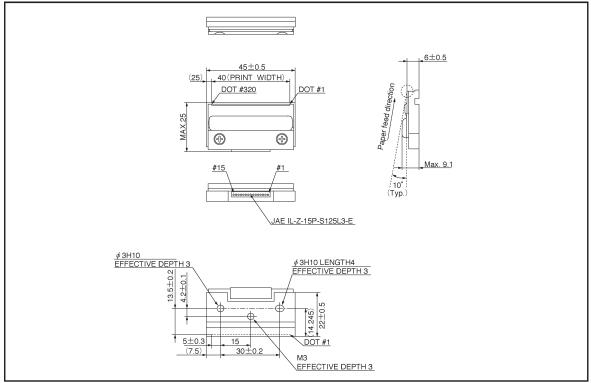
The NE2001-VA20A is a near edge thin-film thermal printhead where the printing medium passes straight through, suited for card printers.

•Applications Card printers Handy printers Ticket printers Label 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 heating element offers excellent resistance to electrostatic damage.
- 4) Being low-profile when installed enables smaller 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.

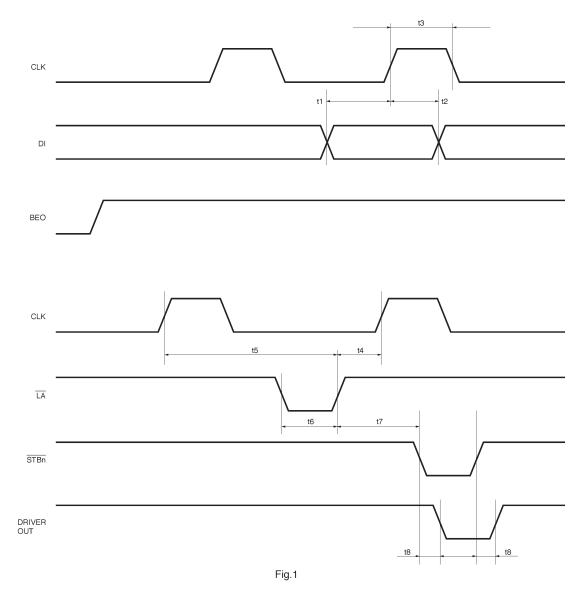
#### Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	-	40	mm
Dot pitch	-	0.125	mm
Total dot number	-	320	dots
Average resistance value	Rave	850	Ω
Applied voltage	Vн	12	V
Applied power	Po	0.150	W / dot
Print cycle	SLT	2.00	ms
Pulse width	Ton	1.5	ms
Maximum number of dots energized simultaneously	-	320	dots
Maximum clock frequency	-	10	MHz
Maximum roller diameter	-	_	mm
Running life / pulse life	-	50 / 10 <sup>8</sup>	km / pulses
Operating temperature	-	5~45	Ĵ

#### Pin assignments

CONNECTOR		
No.	Circuit	
1	VH	
2	VH	
3	LA	
4	GND	
5	GND	
6	STB1	
7	Vdd	
8	STB2	
9	ТМ	
10	GND	
11	GND	
12	DI	
13	CLK	
14	VH	
15	VH	

### •Timing chart





## **Printheads**

## NE2001-VA20A

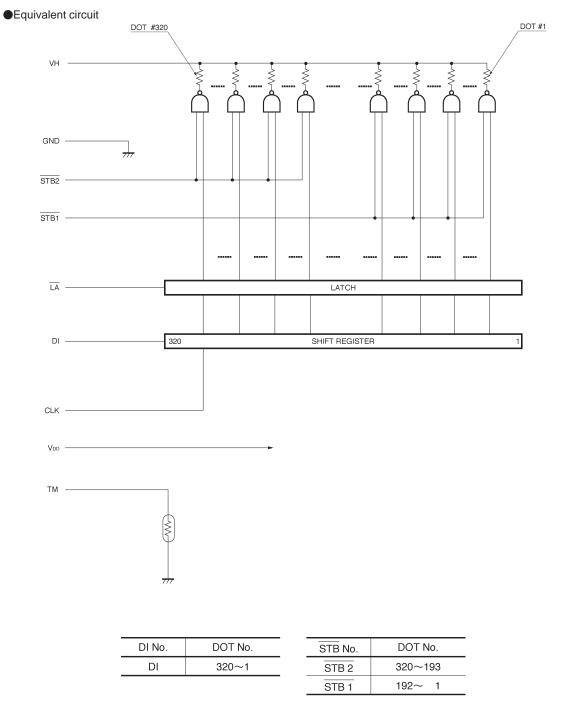
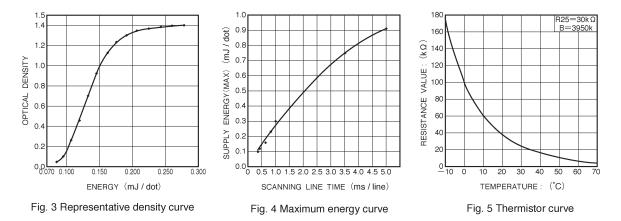


Fig. 2

## **Printheads**

#### Electrical characteristic curves



## rohm