

Near edge thermal Printhead

NE3002-GV10A

A near-edge structure and Real Flat glazing technology make it possible to use the NE printhead for straight path printing. This thermal printhead is made for card and heavy stock paper applications. Because the thickness and quality of the print media matter little, the NE is suitable for a wide range of applications.

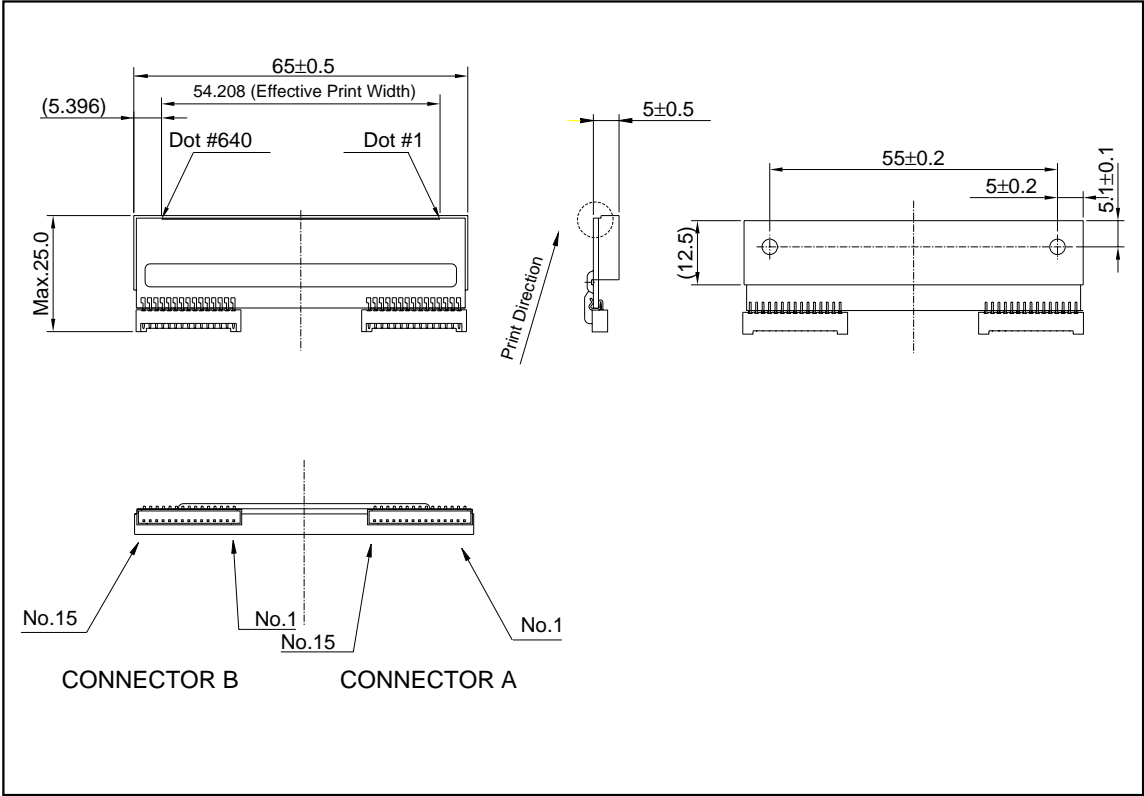
●Applications

- Card printers
- Ticket printers

●Features

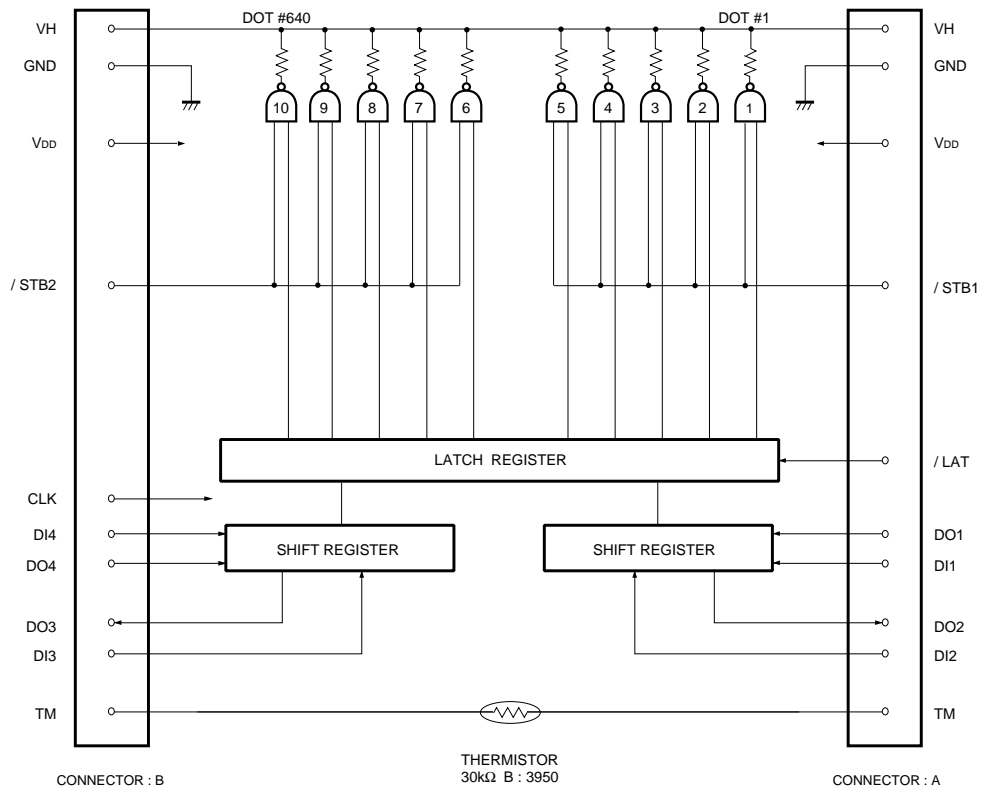
- 1) The use of ROHM's proprietary G-form structure ensures a compact form and light weight. Naturally, it also means that the NE can be used without a heat sink. This gives engineers greater freedom when designing the printer mechanics.
- 2) Owing to the excellent smoothness of the surface of the print face, it is possible to achieve excellent print quality even when printing on hard card.
- 3) Inclined toward the printing surface to provide excellent printing quality even for cards and thick paper.

●External dimensions (Units : mm)



Printheads

●Equivalent circuit



DI, STB DIVISION DOT No. CORRESPONDENCE

DI No.	DOT No.
DI4	640~449
DI3	448~321
DI2	320~193
DI1	192~1

/ STB No.	DOT No.
/ STB2	640~321
/ STB1	320~1

Fig. 1

Printheads

●Pin configuration

CONNECTOR A : IL-Z-15P-CLIP (JAE)

PIN No.	SIGNAL
1	V _H
2	V _H
3	V _H
4	V _{DD}
5	/LAT
6	DI1
7	DO1
8	GND
9	GND
10	GND
11	GND
12	DI2
13	DO2
14	/STB1
15	TM

CONNECTOR B : IL-Z-15P-CLIP (JAE)

PIN No.	SIGNAL
1	TM
2	/STB2
3	DI3
4	DO3
5	GND
6	GND
7	GND
8	GND
9	DI4
10	DO4
11	CLK
12	V _{DD}
13	V _H
14	V _H
15	V _H

●Characteristics

Parameter	Symbol	Typ.	Unit
Dot pitch	–	0.0847	mm
Pulse width	T _{on}	0.47	ms
Pulse cycle	SLT	1.5	ms
Applied power	P _o	0.19	W / dot
Applied voltage	V _H	24.0	V
Maximum clock frequency	–	10	MHz
Maximum roller diameter	–	∞	–
Life	–	50 / 1×10 ⁸	km / pulses
Maximum number of dots energized simultaneously	–	320	dots
Operating temperature	–	5~45	°C
Effective printing width	–	54.208	mm
Total dot number	–	640	dots
Res. value of heat element	R _{ave}	3000	Ω

Printheads

● Electrical characteristic curves

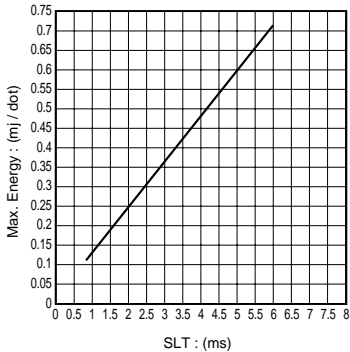


Fig.2 Maximum print energy