

Near edge thermal printhead (300 dots / inch)

NE3002-VA30A

NE-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.

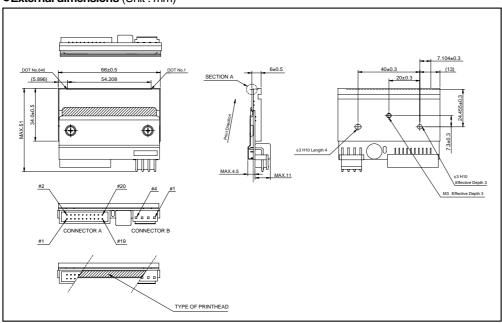
Applications

Bar code printer Label printer Packaging printer ATM Ticket printer

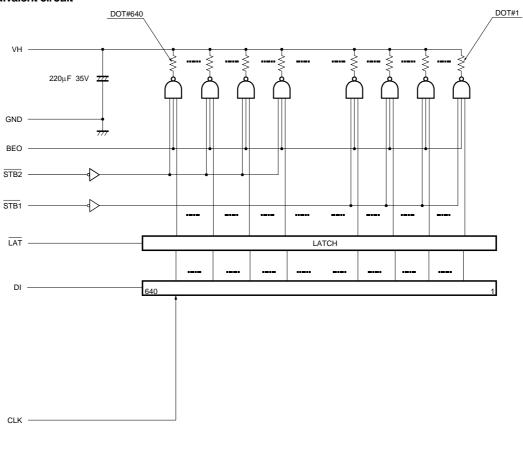
Features

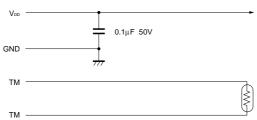
- 1) High dot reproducibility with step-free structure.
- 2) About 8° head inclination by near-edge structure, applicable to the large-size platen. Resin type thermal-transfer ink-ribbon can be used.
- 3) High-hardness protect cote type "W-coat" is employed with 150km abrasion life-time.
- 4) Even without 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)



●Equivalent circuit





DI No.	DOT No.	
DI	640 to 1	

DOT No.		
640 to 321		
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	Rave	850	Ω
Applied voltage	V _H	24	V
Applied power	Po	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	_	φ50	mm
Running life / pulse life	_	150 / 10 ⁸	km / pulses
Operating temperature	_	5 to 45	°C

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