High speed thermal printhead (with thermal historical control) NF3002-WA30A

NF-WA30 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.

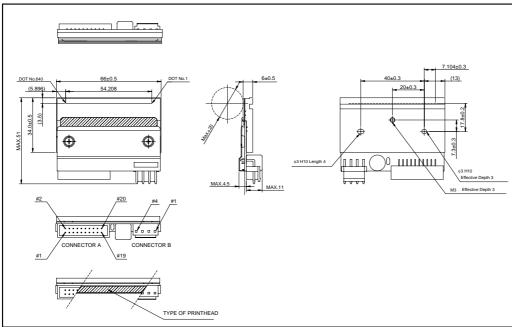
Applications

Bar code printer Label printer Packaging printer ATM Ticket printer

Features

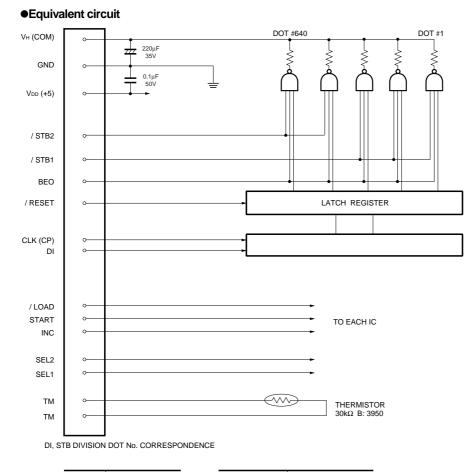
1) High dot reproducibility with step-free structure.

- 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)

Printheads



DOT No.	/ STB No.	/ STB No. DOT No.	
640 to 1	/ STB2	640 to 385	
	/ STB1	384 to 1	

Pin assignments

DI No.

DI

CONNECTOR A						
No.	Circuit	No.	Circuit			
1	Vdd	2	BEO			
3	GND	4	DI			
5	GND	6	CLK(CP)			
7	/LOAD	8	START			
9	INC	10	N.C.			
11	SEL2	12	SEL1			
13	/RESET	14	/ STB 2			
15	/ STB 1	16	TM			
17	TM	18	SENS1			
19	SENS2	20	SENS3			

CONNECTOR B						
No.	Circuit	No.	Circuit			
1	Vн (COM)	2	Vн (COM)			
3	3 GND		GND			

NF3002-WA30A Under development

Printheads

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	Vн	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	-	φ20	mm
Running life / pulse life	-	150/(1×10 ⁸)	km/pulses
Operating temperature	-	5 to 45	°C

Notes

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