

High speed thermal printhead (with thermal historical control)

SE2003-DC70A

High speed, high quality, and high durability are achieved by using step free structure with high performance partial glaze and highly conductive overcoat layer. SE200*-DC70A series are lined up which can accommodate with all types of barcode labeling printers from Direct to Thermal Transfer, normal to high speed (over 300mm/s).

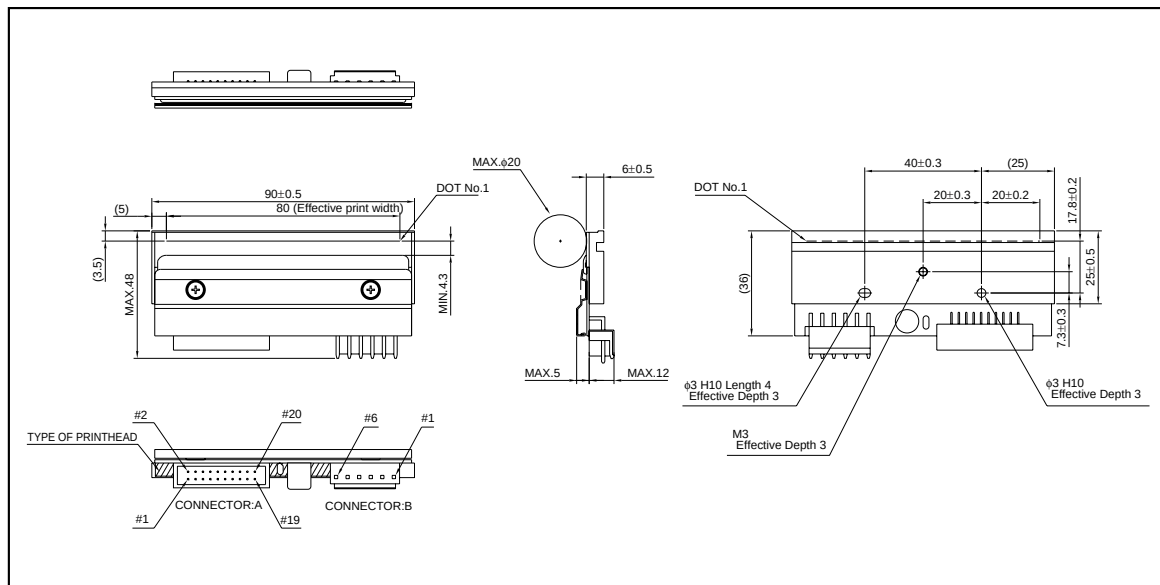
●Applications

Bar code printer
Label printer
Packaging printer
ATM
Ticket printer

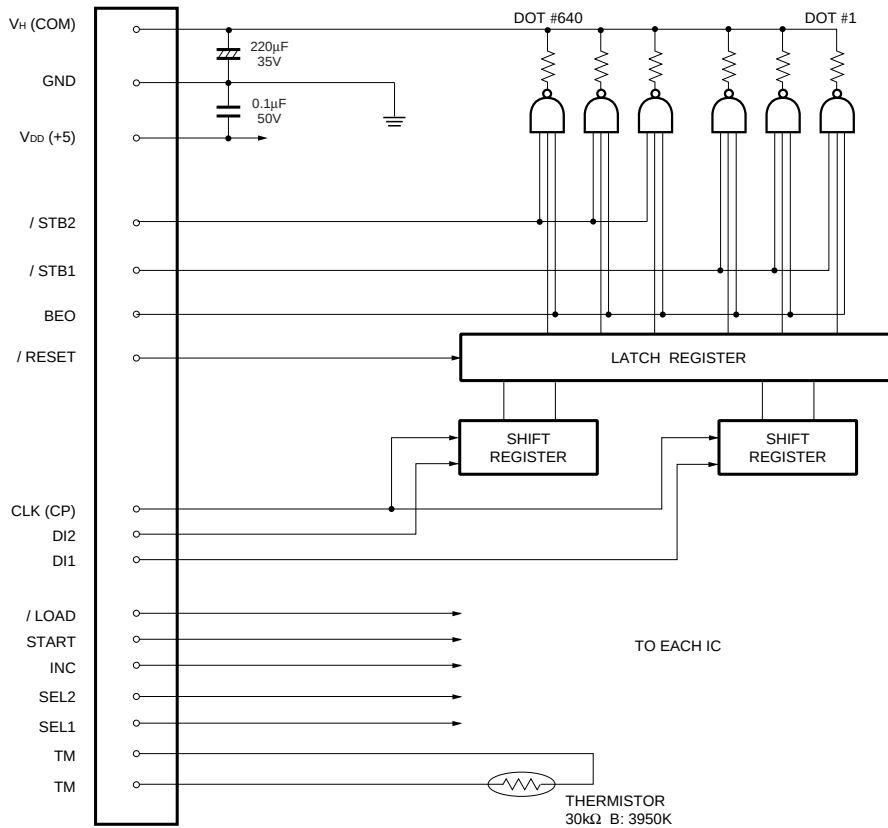
●Features

- 1) ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 2) High-hardness protect cote type "W-coat" is employed with 150km abrasion life-time.
- 3) A built in history-control functionality, high-speed printing up to 300mm / s can be achieved at 300dpi with clear print image.

●External dimensions (Unit : mm)



●Equivalent circuit



DI No.	DOT No.
DI2	640 to 257
DI1	256 to 1

/ STB No.	DOT No.
/ STB2	640 to 257
/ STB1	256 to 1

●Pin assignments

CONNECTOR : A

No.	Circuit	No.	Circuit
1	V _{DD}	2	BEO
3	GND	4	DI2
5	GND	6	CLK (CP)
7	/LOAD	8	START
9	INC	10	DI1
11	SEL2	12	SEL1
13	/RESET	14	/STB2
15	/STB1	16	TM
17	TM	18	SENS1
19	SENS2	20	SENS3

CONNECTOR : B

No.	Circuit	No.	Circuit
1	V _H (COM)	2	V _H (COM)
3	V _H (COM)	4	GND
5	GND	6	GND

Printheads

Under development

●Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	—	80	mm
Dot pitch	—	0.125	mm
Total dot number	—	640	dots
Average resistance value	Rave	550	Ω
Applied voltage	V _H	24	V
Applied power	P _O	0.85	W/dot
Print cycle	SLT	0.49	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

Appendix

Notes

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