High speed thermal printhead (with thermal historical control)

SE3002-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. SE300*-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).

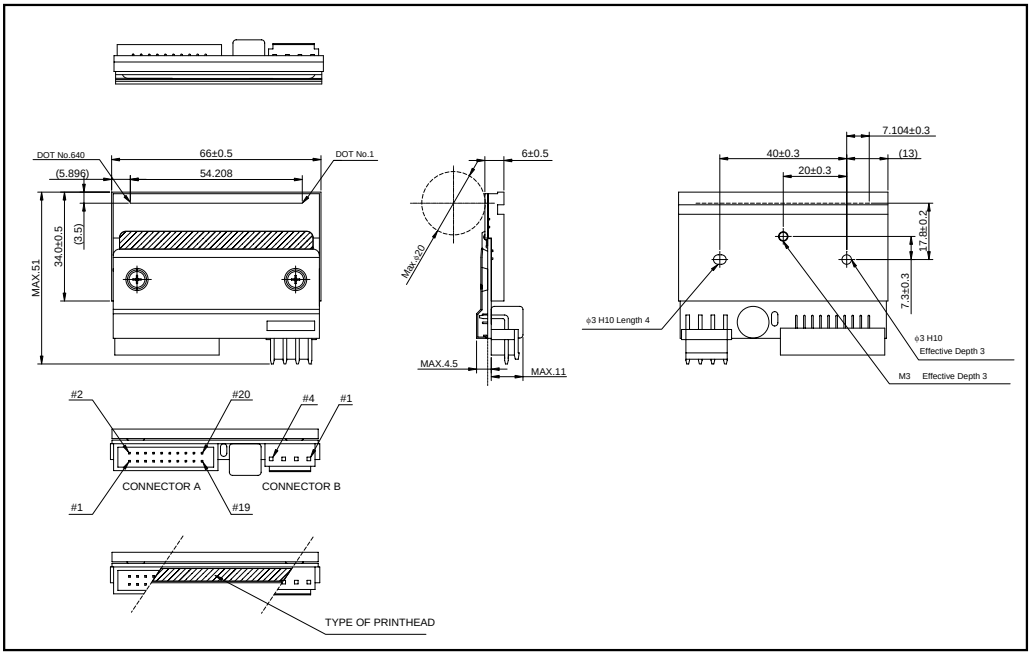
●Applications

Bar code printer
Label printer
Packaging printer
ATM
Ticket printer

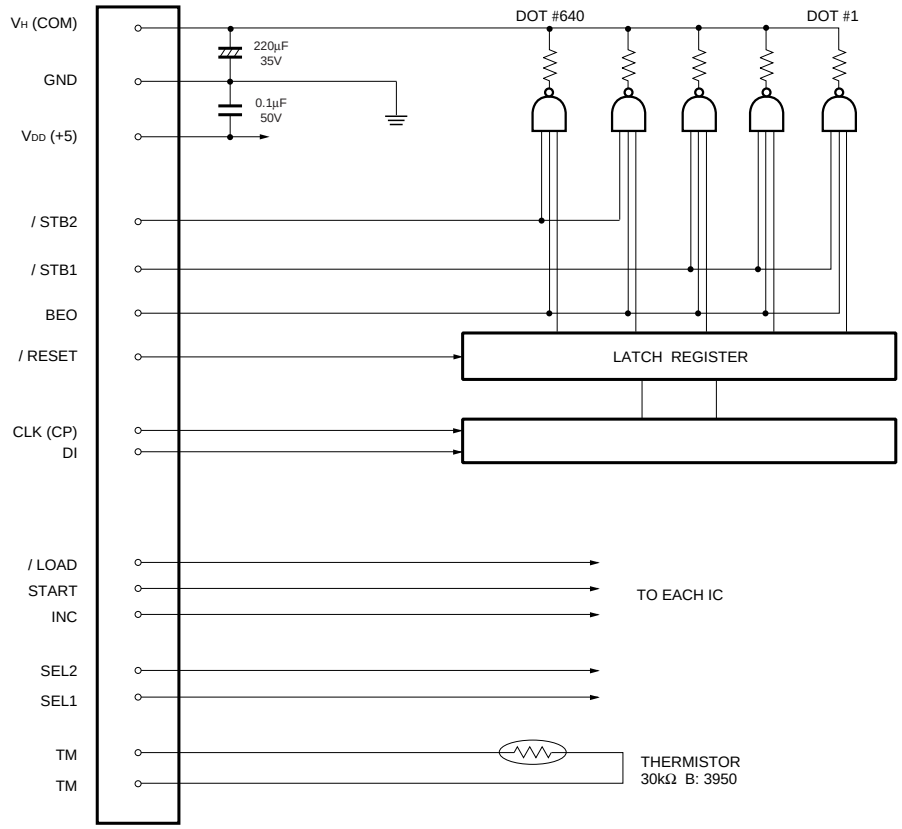
●Features

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.
DI	640 to 1

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

●**Pin assignments**

CONNECTOR A

No.	Circuit	No.	Circuit
1	V_{DD}	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	V_H (COM)	2	V_H (COM)
3	GND	4	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	P_O	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	–	$150/(1\times10^8)$	km/pulses
Operating temperature	–	5 to 45	°C

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