# Hight Speed Thermal Printhead (8dots / mm)

## SE2004-DC94A

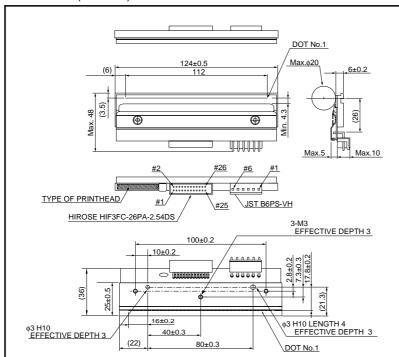
High speed, high quality, and high durability are achieved by using step free structure with high performance partial glaze and highly conductive overcoat layer. SE200\*-DC94A series are lined up which can accommodate with all types of barcode labeling printers from Direct to Thermal Transfer, normal to high speed (over 300mm/s).

#### Applications

Bar code label printers Ticket printers General purpose compact printers

#### Features

- 1) Anti Sticking Treatment reduces sticking problems and achieves high print quality at any environmental conditions.
- ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 3) Standard glazed components to accommodate thick paper.
- Using a hard conductive film as a protective film on the heating element offers excellent resistance to electrostatic damage.
- Compatible with the SE3004-DC94A (300dpi) in mechanical specifications, to facilitate the making of a series of printers.

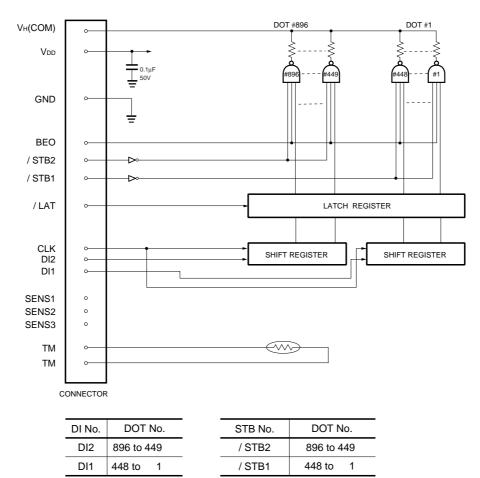


#### •Dimensions (Unit : mm)

Note: No heat history control function inside the thermal printhead. External heat history control is required for high speed printing.

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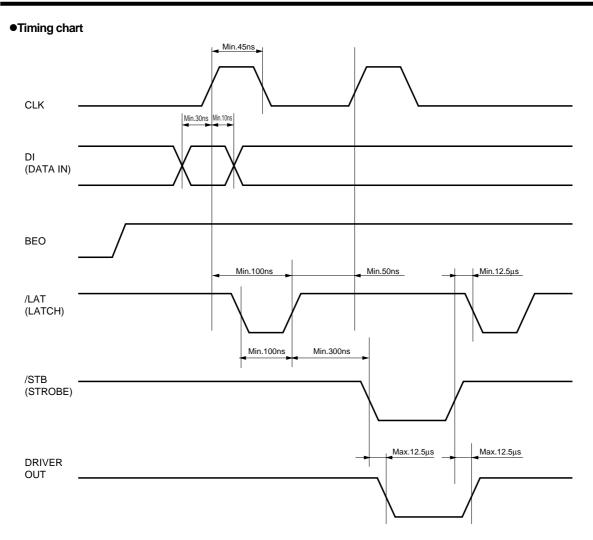
#### •Equivalent circuit



#### Pin configuration

HIROSE						
No.	Circuit	No.	Circuit			
1	GND	2	VDD			
3	DI2	4	CLK(CP)			
5	/LAT	6	/STB2			
7	NC	8	DI1			
9	/STB1	10	NC			
11	ТМ	12	ТМ			
13	SENS3	14	SENS2			
15	SENS1	16	BEO			
17	NC	18	NC			
19	NC	20	NC			
21	NC	22	NC			
23	NC	24	NC			
25	NC	26	NC			

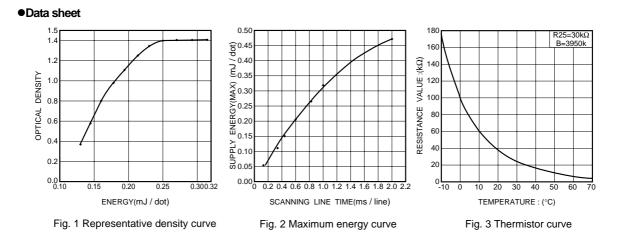
JST			
No.	Circuit		
1	COM		
2	COM		
3	СОМ		
4	GND		
5	GND		
6	GND		



#### Characteristics

Parameter		Typical	Unit
Effective printing width		112	mm
Dot pitch		0.125	mm
Total dot number		896	dots
Average resistance value		550	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.91	W/dot
Print cycle	SLT	0.42	ms
Maximum number of dots energized simultaneously	-	896	dots
Maximum clock frequency	-	10	MHz
Maximum roller diameter	-	20	mm
Running life / pulse life	-	50 / 1×10 <sup>8</sup>	km / pulses
Operating temperature	-	5 to 45	°C





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Appendix1-Rev2.0

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