

SE3003-DC90A

●Applications

Scale printers

4) Using a hard conductive film as a protective film on the heating element offers excellent resistance to electrostatic damage.

Technical drawings of the printer head assembly, including top, side, and cross-sectional views with dimensions.

Top View: Shows the overall dimensions of the head assembly. Key dimensions include a total width of 90 ± 0.5 mm, a central section width of 81.312 mm, and a distance of 4.344 mm from the left edge to the start of the main section. The height is 48 mm (labeled MAX. 48) with a tolerance of (3.5) . A minimum height of 4.3 mm (labeled MIN. 4.3) is indicated for the lower section. Two circular features are shown with a diameter of $\phi 3$ H10 Effective Depth 3.

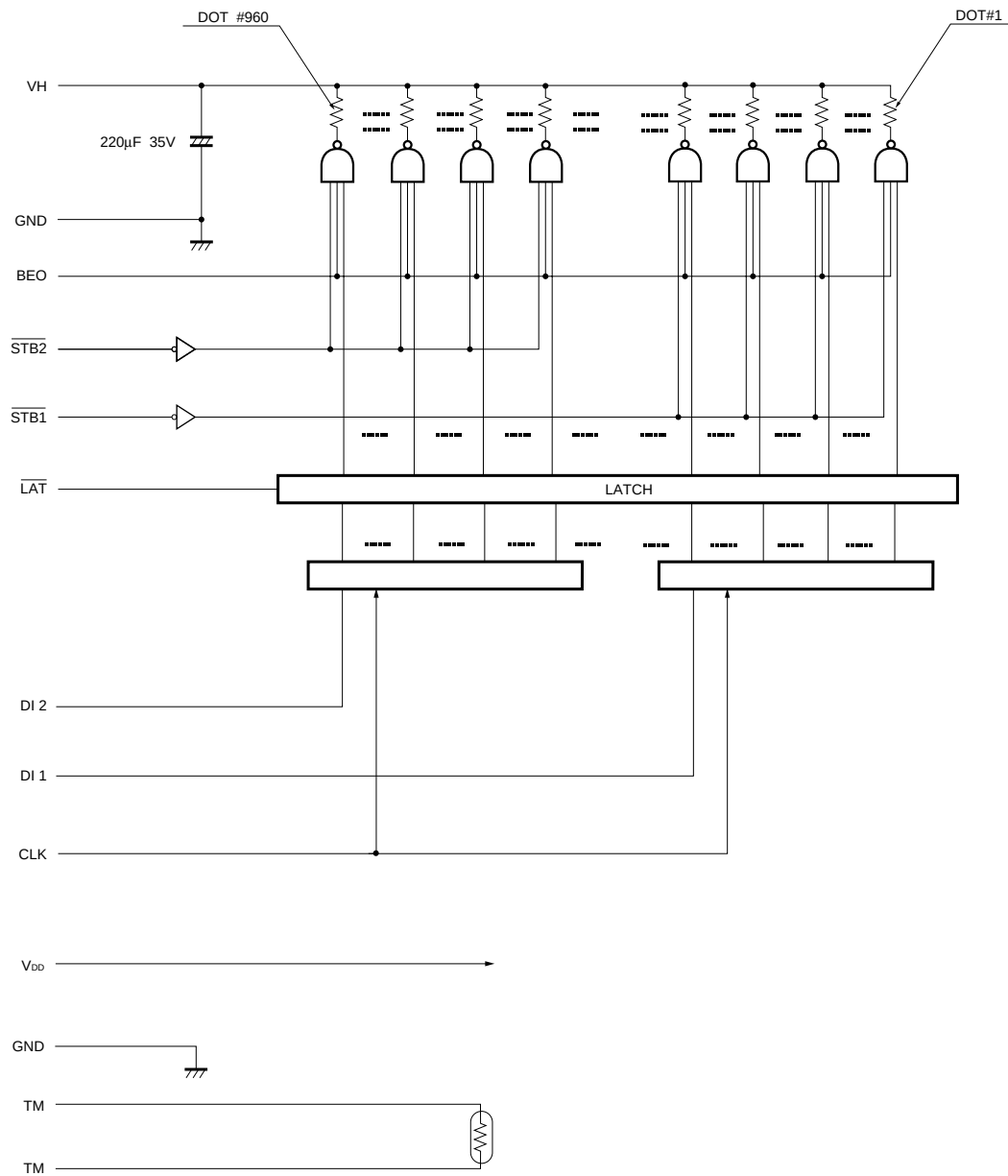
Side View: Shows the profile of the head assembly. Key dimensions include a maximum width of 20 mm (labeled MAX. $\phi 20$), a total height of 6 ± 0.5 mm, and a maximum depth of 5 mm (labeled MAX. 5) and 12 mm (labeled MAX. 12).

Cross-sectional View: Shows the internal structure of the head assembly. Key dimensions include a total width of 40 ± 0.3 mm, a central section width of 20 ± 0.3 mm, and a distance of 20.656 ± 0.2 mm from the center to the right edge. The height is 17 mm (labeled 17 R10.2) with a tolerance of ± 0.5 mm. The distance from the bottom edge to the top of the main section is 25 ± 0.5 mm. The distance from the bottom edge to the top of the lower section is 7.3 ± 0.3 mm. The distance from the bottom edge to the top of the upper section is 30 mm (labeled 30). The distance from the bottom edge to the top of the lower section is 3 mm (labeled 3). The distance from the bottom edge to the top of the upper section is 3 mm (labeled 3). The distance from the bottom edge to the top of the lower section is 3 mm (labeled 3). The distance from the bottom edge to the top of the upper section is 3 mm (labeled 3).

Bottom View: Shows the connector pins and their positions. Key dimensions include a total width of 40 ± 0.3 mm, a central section width of 20 ± 0.3 mm, and a distance of 20.656 ± 0.2 mm from the center to the right edge. The height is 17 mm (labeled 17 R10.2) with a tolerance of ± 0.5 mm. The distance from the bottom edge to the top of the main section is 25 ± 0.5 mm. The distance from the bottom edge to the top of the lower section is 7.3 ± 0.3 mm. The distance from the bottom edge to the top of the upper section is 30 mm (labeled 30). The distance from the bottom edge to the top of the lower section is 3 mm (labeled 3). The distance from the bottom edge to the top of the upper section is 3 mm (labeled 3). The distance from the bottom edge to the top of the lower section is 3 mm (labeled 3). The distance from the bottom edge to the top of the upper section is 3 mm (labeled 3).

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

●Equivalent circuit



DI No.	DOT No.
DI 2	960 to 449
DI 1	448 to 1

STB No.	DOT No.
STB2	960 to 449
STB1	448 to 1

●Pin assignments

HIROSE

No.	Circuit	No.	Circuit
1	V _{DD}	2	BEO
3	GND	4	DI2
5	N.C.	6	CLK
7	LAT	8	GND
9	GND	10	DI1
11	N.C.	12	GND
13	V _{DD}	14	STB2
15	STB1	16	TM
17	TM	18	SENS1
19	SENS2	20	SENS3

JST

No.	Circuit
1	VH
2	VH
3	VH
4	GND
5	GND
6	GND

●Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	—	81.3	mm
Dot pitch	—	0.0847	mm
Total dot number	—	960	dots
Average resistance value	R _{ave}	850	Ω
Applied voltage	V _H	24	V
Applied power	P _o	0.61	W / dot
Print cycle	SLT	0.42	ms
Maximum number of dots energized simultaneously	—	960	dots
Maximum clock frequency	—	10	MHz
Maximum roller diameter	—	φ20	mm
Running life / pulse life	—	150 / 10 ⁸	km / pulses
Operating temperature	—	5 to 45	°C

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