Near edge thermal printhead (8dots / mm)

SH2002-DC90A

SH-DC90 series was developed with two key structures step-free and near edge for the packaging printer market which requires high speed continuous printing. It is suitable for printers in factory line where high speed 24 hours continuous printing is required.

Applications

Bar code printers

Card printers

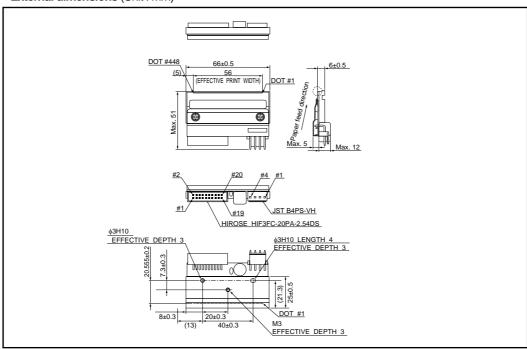
Ticket printers

General purpose compact printers

Features

- 1) ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 2) Inclined toward the printing surface to provide excellent printing quality even for cards and thick paper.
- 3) Prints directly on printing medium that cannot be bent.
- 4) Using a hard conductive film as a protective film on the heating element offers excellent resistance to electrostatic damage.
- Compatible with the SH3002-DC90A (300dpi) in mechanical specifications, to facilitate the making of a series of printers.

●External dimensions (Unit:mm)



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

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	-	56	mm
Dot pitch	-	0.125	mm
Total dot number	_	448	dots
Average resistance value	Rave	550	Ω
Applied voltage	V _H	24	V
Applied power	Po	0.93	W / dot
Print cycle	SLT	0.42	ms
Maximum number of dots energized simultaneously	_	448	dots
Maximum clock frequency	_	10	MHz
Maximum roller diameter	_	_	mm
Running life / pulse life	_	50 / 108	km / pulses
Operating temperature	_	5 to 45	°C

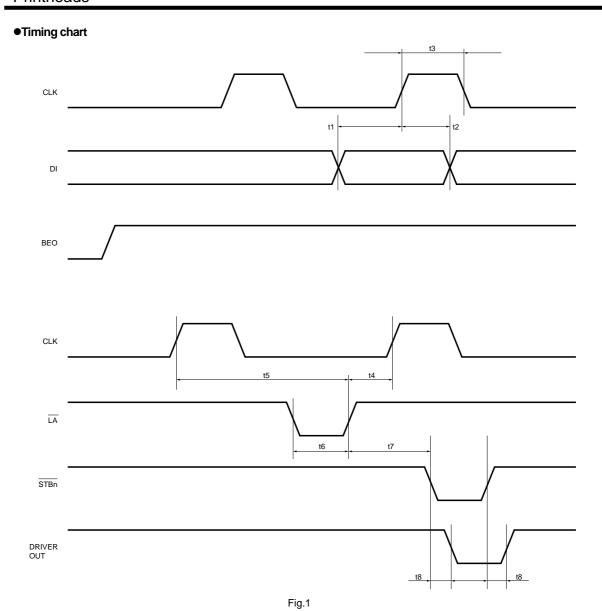
●Pin configuration

HIROSE

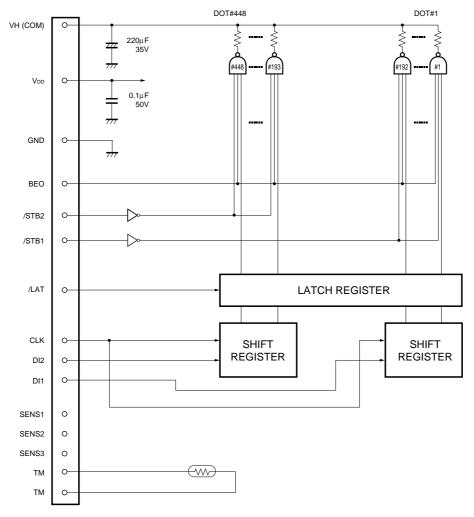
No.	Circuit	No.	Circuit
1	V _{DD}	2	BEO
3	GND	4	DI2
5	N.C.	6	CLK
7	LA	8	GND
9	GND	10	DI1
11	N.C.	12	GND
13	V _{DD}	14	STB2
15	STB1	16	TM
17	TM	18	SENS1
19	SENS2	20	SENS3

JST

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



●Equivalent circuit



DI No.	DOT No.	
DI2	448 to 193	
DI1	192 to 1	

STB No.	DOT No.
STB 2	448 to 193
STB 1	192 to 1

Fig. 2

•Electrical characteristics curves

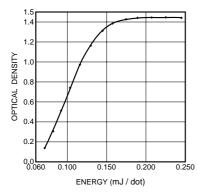


Fig. 3 Representative density curve

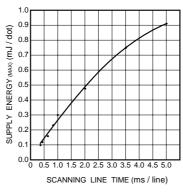


Fig. 4 Maximum energy curve

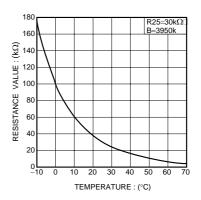


Fig. 5 Thermistor curve

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