Tentative Printhead

Near edge thermal printhead (300 dots / inch)

SH3004-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

Barcode printers Label printers Packaging printers ATM Ticket printers Scale printers

Features

- 1) ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 2) Head inclination by near-edge structure, applicable to the large-size platen. Resin type thermal-transfer ink-ribbon can be used.
- 3) High-hardness protect cote type "W-coat" is employed with 150km abrasion life-time.
- 4) Even without history-control, high-speed printing more than 200mm/s can be achieved at 300dpi with clear print image. With history-control, 300mm/s printing is also possible at 300dpi.



•External dimensions (Unit : mm)



SH3004-DC90A



DI No. D	OT No.	STB No.	DOT No.	
DI 2 128	0 to 641	STB2	1280 to 641	
DI 1 64	0 to 1	STB1	640 to 1	



Tentative Printhead

Pin assignments

HIROSE

	-		
No.	Circuit	No.	Circuit
1	Vdd	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	Vdd	14	STB2
15	STB1	16	ТМ
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		Typical	Unit
Effective printing width		108.4	mm
Dot pitch	-	0.0847	mm
Total dot number	-	1280	dots
Average resistance value	Rave	850	Ω
Applied voltage	VH	24	V
Applied power	Po	0.57	W / dot
Print cycle	SLT	0.42	ms
Maximum number of dots energized simultaneously	-	1280	dots
Maximum clock frequency	-	10	MHz
Maximum roller diameter	-	φ50	mm
Running life / pulse life	-	150 / 10 ⁸	km / pulses
Operating temperature	-	5 to 45	°C

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