## Printhead

# Near edge thermal printhead (with thermal historical control) SH3004-DC70A

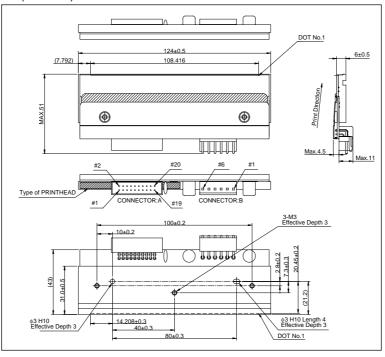
SH-DC70 series was developed with two key structures step-free and near edge for the packaging printer market which requires high speed continuous printing. It is suitable for printers in factory line where high speed 24 hours continuous printing is required.

#### Applications

Barcode printer Label printer Packaging printer Ticket printer Scale printer ATM

#### Features

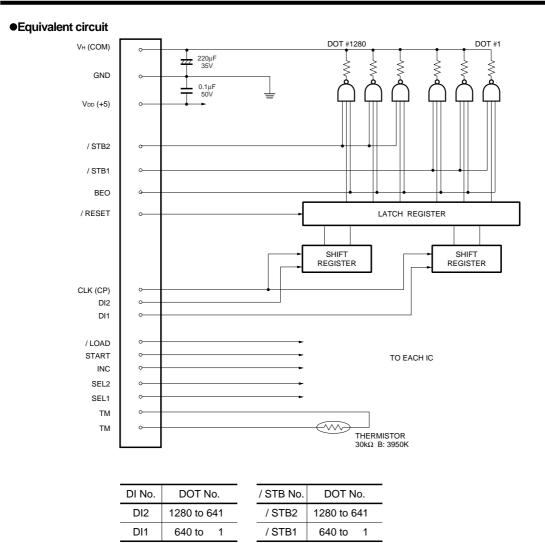
- 1) ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 2) Head inclination by near-edge structure, applicable to the large-size platen. Resin type thermal-transfer ink-ribbon can be used.
- 3) High-hardness protect cote type "W-coat" is employed with 150km abrasion life-time.
- 4) 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)



## Printhead



## Pin assignments

CONNECTOR : A						
No.	Circuit	No.	Circuit			
1	Vdd	2	BEO			
3	GND	4	DI2			
5	GND	6	CLK (CP)			
7	/LOAD	8	START			
9	INC	10	DI1			
11	SEL2	12	SEL1			
13	/RESET	14	/STB2			
15	/STB1	16	ТМ			
17	ТМ	18	SENS1			
19	SENS2	20	SENS3			

CONNECTOR : B							
No.	Circuit	No.	Circuit				
1	VH (COM)	2	VH (COM)				
3	VH (COM)	4	GND				
5	GND	6	GND				

# Printhead

## Characteristics

Parameter		Typical	Unit
Effective printing width		108.416	mm
Dot pitch		0.0847	mm
Total dot number		1280	dots
Average resistance value		850	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.57	W/dot
Print cycle	SLT	0.28	ms
Maximum number of dots energized simultaneously	-	1280	dots
Maximum clock frequency	-	8	MHz
Maximum roller diameter	-	φ50	mm
Running life / pulse life	-	150/(1×10 <sup>8</sup> )	km/pulses
Operating temperature	-	5 to 45	°C



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