KD3003-DC70A

# Printhead

# Thick film thermal printhead (with thermal historical control)

# KD3003-DC70A

DC70 series has our own internally developed heat-history control function.

This product is best suited for applications which require 24 hours operation like factory production lines.

### Applications

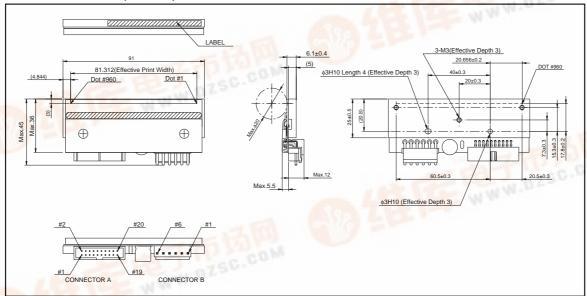
High speed label printer
High speed bar code printer
High speed ticket printer

Various high speed terminal printers

### Features

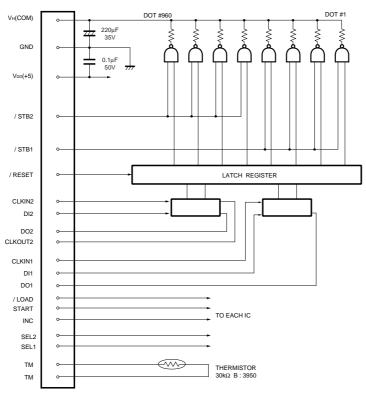
- 1) Newly developed thick-film fast response thermal element and driver LSI with the function of thermal history control which is added the future history control are employed for this series. It is possible to print with super high speed of 10 inches / s or 250 mm / s.
- 2) 150km life realized by attributing durable new protection film.
- 3) New partial glaze construction makes it compatible with the thermal transfer application.

### ●External dimensions (Unit : mm)





# ●Equivalent circuit



DI No.	DOT No.			
DI2	960~513			
DI1	512~ 1			

/ STB No.	DOT No.		
/ STB2	960~513		
/ STB1	512~ 1		

CLK No.	DOT No.
CLKIN2	960~513
CLKIN1	512~ 1

Fig.1

# Pin assignments

# CONNECTOR A

No.	Circuit	No.	Circuit	
1	V <sub>DD</sub>	11	/ RESET	
2	V <sub>DD</sub>	12	START	
3	SEL2	13	DO1	
4	SEL1	14	DO2	
5	CLKIN2 (CP)	15	TM	
6	NC	16	TM	
7	DI2	17	/ STB2	
8	DI1	18	/ STB1	
9	INC	19	CLKOUT2	
10	/ LOAD	20	CLKIN1	
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# CONNECTOR B

No.	Circuit			
1	Vн (COM)			
2	Vн (COM)			
3	VH (COM)			
4	GND			
5	GND			
6	GND			

## Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	-	81.312	mm
Dot pitch	-	0.0847	mm
Total dot number	-	960	dots
Average resistance value	Rave	1000	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.53	W/dot
Print cycle	SLT	0.41	ms
Maximum number of dots energized simultaneously	-	960	dots
Maximum clock frequency	-	8	MHz
Maximum roller diameter	_	ф20.0	mm
Running life / pulse life	_	150/(1×10 <sup>8</sup> )	km/pulses
Operating temperature	_	5 to 45	°C

# ●Data sheets

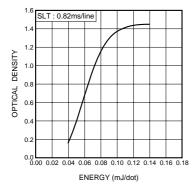


Fig.2 Representative density curve

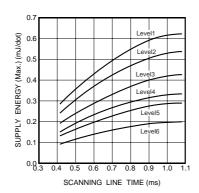


Fig.3 Maximum energy curve

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