Thick Film Thermal Printhead (300dpi) KD3003-DC10A

KD3003-DC10A is developing type of GL40 series which are developed mainly for label printers.

We have adopted low coefficient of abrasion and conductive protection coat to GL40 series which are possible for high speed and good printing quality.

That is KD3003-DC10A which is 24V standard thick film thermal print head with high speed, high quality of printing, high durability, long life, and strong resistance to abration.

Applications

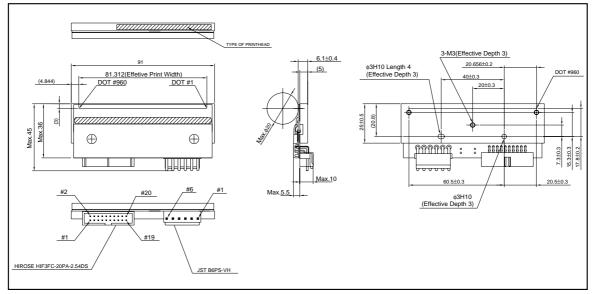
High speed label printer Food label printer High speed ticket printer High speed terminal printer

Features

1) Perform 150km life time adopting new protective coat.

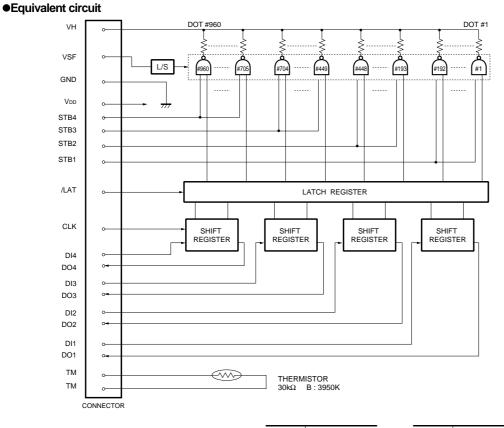
(Perform three times life time by coefficient of abrasion which is about is about 1/10 of current mass-producing coat.)

- 2) Build in thermal high speeded heater and perform high printing 4 IPS. (100mm / s)
- 3) Available for thermal transfer printing by adopting specific partial glaze.



•External dimensions (Unit : mm)

Printheads



VSF : Usually VSF and VH are connected. When measuring R value of Heatelement , VSF and VH should be separated.

DI No.	DOT No.			
DI1	1 to 192			
DI2	193 to 448			
DI3	449 to 704			
DI4	705 to 960			

STB No.	DOT No.
STB1	1 to 192
STB2	193 to 448
STB3	449 to 704
STB4	705 to 960

Fig. 1

Pin configuration

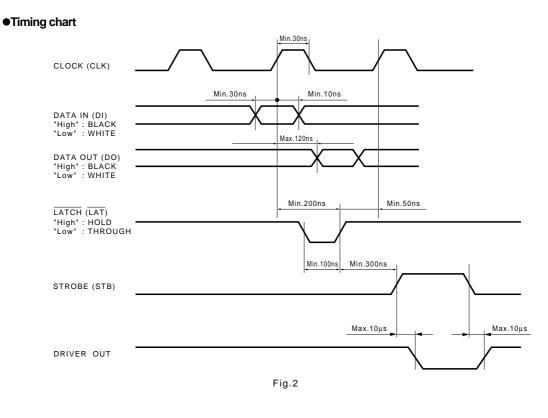
CONNECTOR A							
No.	Circuit	No.	Circuit				
1	GND	11	ТМ				
2	VSF	12	TM				
3	GND	13	DI3				
4	Vdd	14	DO3				
5	STB4	15	DI2				
6	CLK	16	DO2				
7	DI4	17	STB2				
8	DO4	18	STB1				
9	STB3	19	DI1				
10	LAT	20	DO1				

CONNECTOR B

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

ROHM

Printheads

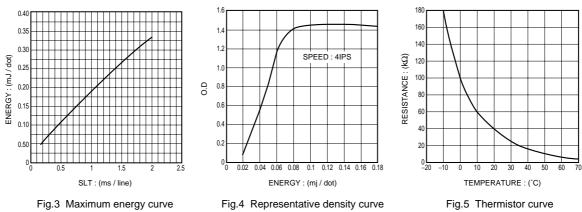


Characteristics

Parameter	Symbol	Тур.	Unit
Effective printing width	-	81.31	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	0.83	ms
Maximum number of dots energized simultaneously	-	960	dots
Maximum clock frequency	-	12	MHz
Maximum roller diameter	-	φ20.0	mm
Running life / pulse life	-	150 / 1×10 ⁸	km / pulses
Operating temperature	-	5 to 45	°C

Printheads





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