Thick film thermal printhead **KD3006-DC10A**

KD3006-DC10A is developing type of GL40 series which are developed mainly of 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 KD3006-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 High speed bar code printer High speed ticket printer Various high speed terminal printers

Features

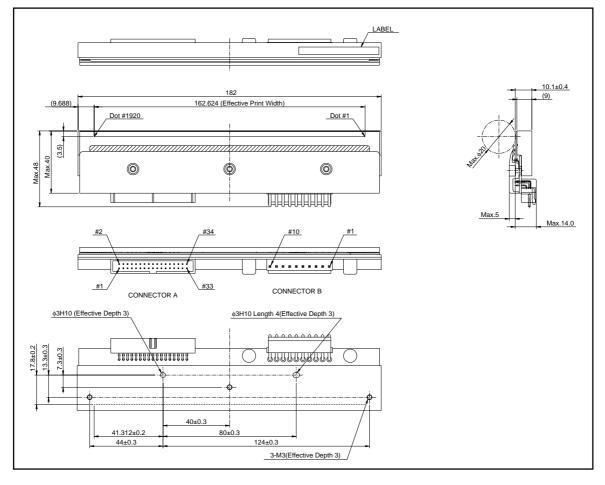
1) Newly developed thick-film fast response thermal element is employed for this series and 4 inches/s or 100 mm/s is possible without thermal history control. It is possible to print 10 inches/s or 250 mm/s if external thermal history control is used.

2) 150km life realized by attributing durable new protection film.

3) New partial glaze construction makes it compatible with the thermal transfer application.

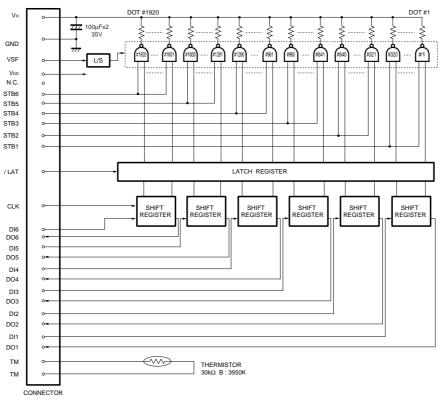
Printhead

•External dimensions (Unit : mm)



Printhead

Equivalent circuit



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

DI No.	DOT No.	STB No.	DOT No.
DI1	1 to 320	STB1	1 to 320
DI2	321 to 640	STB2	321 to 640
DI3	641 to 960	STB3	641 to 960
DI4	961 to 1280	STB4	961 to 1280
DI5	1281 to 1600	STB5	1281 to 1600
DI6	1601 to 1920	STB6	1601 to1920

Fig.1

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Printhead

Pin assignments

CONNECTOR A						
No.	Circuit	No.	Circuit			
1	GND	18	STB6			
2	VSF	19	CLK			
3	GND	20	/ LAT			
4	Vdd	21	ТМ			
5	NC	22	ТМ			
6	NC	23	STB3			
7	NC	24	STB4			
8	NC	25	STB1			
9	NC	26	STB2			
10	NC	27	DI4			
11	DI6	28	DO4			
12	DO6	29	DI3			
13	DI5	30	DO3			
14	DO5	31	DI2			
15	NC	32	DO2			
16	NC	33	DI1			
17	STB5	34	DO1			

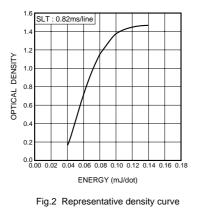
CONNECTOR B				
No.	lo. Circuit			
1	Vн			
2	Vн			
3	3 Vн			
4	4 VH			
5	Vн			
6	GND			
7	GND			
8	8 GND			
9	9 GND			
10	GND			

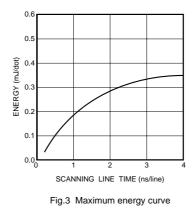
Characteristics

Parameter		Typical	Unit
Effective printing width		162.624	mm
Dot pitch		0.0847	mm
Total dot number		1920	dots
Average resistance value		1000	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.50	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

Printhead

Data sheets





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