Printhead

Thick film thermal printhead

KD2006-DC10A

The KD2006-DC10A is a 24V standard thick film thermal printhead with a printing speed up to 6 inches / s that has been developed mainly for label printer use.

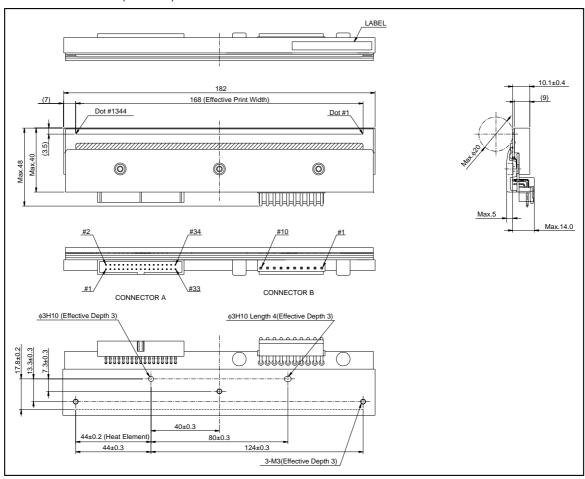
Applications

High speed label printer
High speed bar code printer
High speed ticket printer
Various high speed terminal printers

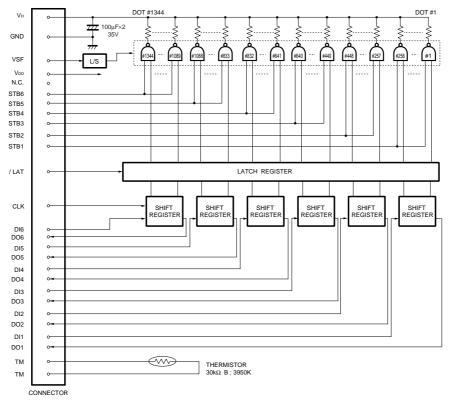
Features

- 1) Newly developed thick-film fast response thermal element is employed for this series and 6 inches/s or 150 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.

●External dimensions (Unit: mm)



●Equivalent circuit



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 256		
DI2	257 to 448		
DI3	449 to 640		
DI4	641 to 832		
DI5	833 to 1088		
DI6	1089 to 1344		

STB No.	DOT No.			
STB1	1 to 256			
STB2	257 to 448			
STB3	449 to 640			
STB4	641 to 832			
STB5	833 to 1088			
STB6	1089 to 1344			

Fig.1

●Pin assignments

CONNECTOR A

No.	Circuit	No.	Circuit	
1	GND	18	STB6	
2	VSF	19	CLK	
3	GND	20	/ LAT	
4	V _{DD}	21	TM	
5	NC	22	TM	
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.	Circuit			
1	Vн			
2	Vн			
3	Vн			
4	Vн			
5	Vн			
6	GND			
7	GND			
8	GND			
9	GND			
10	GND			

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	_	168	mm
Dot pitch	_	0.125	mm
Total dot number	_	1344	dots
Average resistance value	Rave	650	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.75	W/dot
Print cycle	SLT	0.82	ms
Maximum number of dots energized simultaneously	_	704	dots
Maximum clock frequency	_	8	MHz
Maximum roller diameter	_	ф20.0	mm
Running life / pulse life	_	150/(1×10 ⁸)	km/pulses
Operating temperature	_	5 to 45	°C

●Data sheets

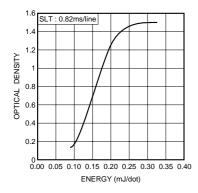


Fig.2 Representative density curve

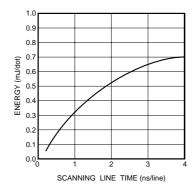


Fig.3 Maximum energy curve

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