Thick film thermal printhead (8 dots / mm)

KD2002-DC10A

The KD2002-DC10A is a 24 V standard thick film thermal printhead with a printing speed up to 6 inches / s that has been developed mainly for label printer use.

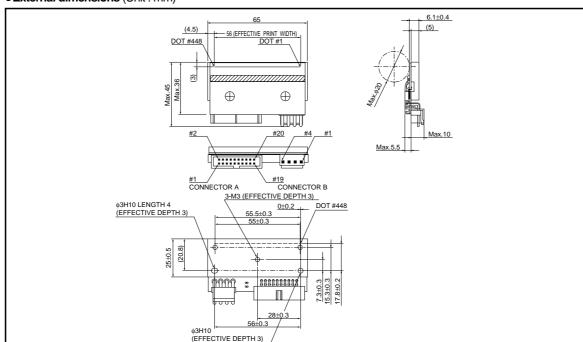
Applications

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

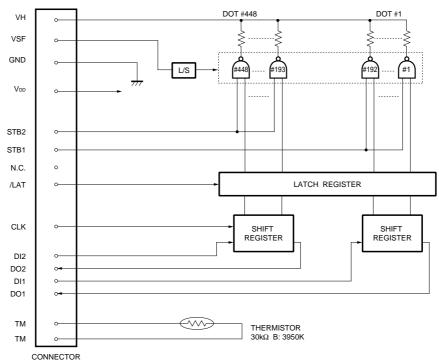
Features

- 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 Heat-element , VSF and VH should be separated.

DI No.	DOT No.		
DI1	1 to 192		
DI2	193 to 448		

STB No.		DOT No.	
	STB1	1 to 192	
	STB2	193 to 448	

Fig. 1

Pin assignments

CONNECTOR A

CONNECTOR A						
No.	Circuit	No.	Circuit			
1	GND	11	TM			
2	VSF	12	TM			
3	GND	13	DI1			
4	V _{DD}	14	DO1			
5	STB2	15	N.C.			
6	CLK	16	N.C.			
7	DI2	17	N.C.			
8	DO2	18	N.C.			
9	STB1	19	N.C.			
10	LAT	20	N.C.			

CONNECTOR B No. Circuit

No.		Circuit
	1	VH
	2	VH
	3	GND
	4	GND

Timing chart

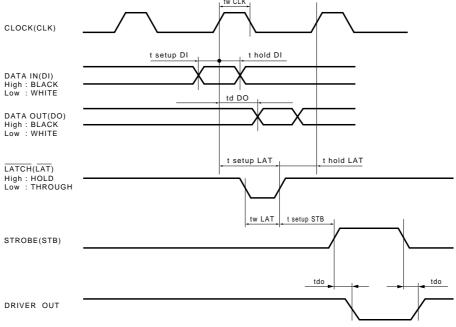


Fig.2

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	_	56	mm
Dot pitch	_	0.125	mm
Total dot number	_	448	dots
Average resistance value	Rave	650	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.82	W / dot
Print cycle	SLT	0.82	ms
Maximum number of dots energized simultaneously		448	dots
Maximum clock frequency		12	MHz
Maximum roller diameter	_	ф20.0	mm
Running life / pulse life	_	150 / (1×10 ⁸)	km / pulses
Operating temperature	_	5 to 45	°C

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