Printheads

Thick film thermal printhead (8 dots / mm) KD2003-DC10A

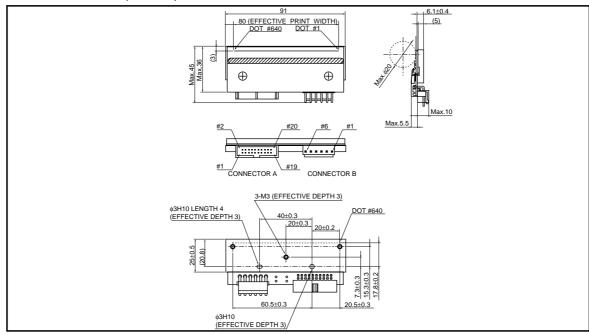
The KD2003-DC10A is a 24 V standard thick film thermal printhead with a printing speed up to 6 inches / s that has been developed mainly for label printer use.

Applications

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

Features

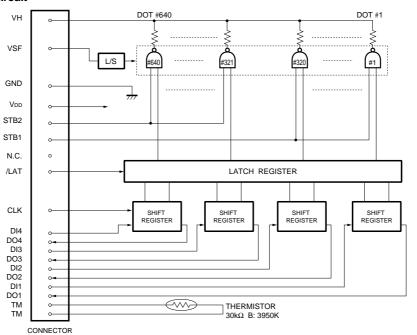
- 1) Newly developed thick-film fast response thermal element is employed for this series and 6 inches / s or 150 mm / s is possible without thermal history control. It is possible to print 10 inches / s or 250 mm / s if external thermal history control is used.
- 2) 150km life realized by attributing durable new protection film.
- 3) New partial glaze construction makes it compatible with the thermal transfer application.



•External dimensions (Unit : mm)

Printheads





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 320	
DI3	321 to 512	
DI4	513 to 640	

STB No.

STB1

STB2

DOT No.

321 to 640

1 to 320

Fig.	1
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Pin assignments

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

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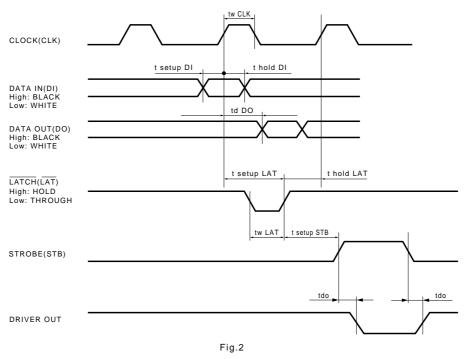
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Printheads

Timing chart



Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	-	80	mm
Dot pitch	-	0.125	mm
Total dot number	-	640	dots
Average resistance value	Rave	650	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.80	W / dot
Print cycle	SLT	0.82	ms
Maximum number of dots energized simultaneously	-	640	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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