Thick Film Thermal Printhead (300dpi) KD3002-DC10A

KD3002-DC10A is developing type of GL40 series which are developed mainly for label printe rs.

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 KD3002-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.

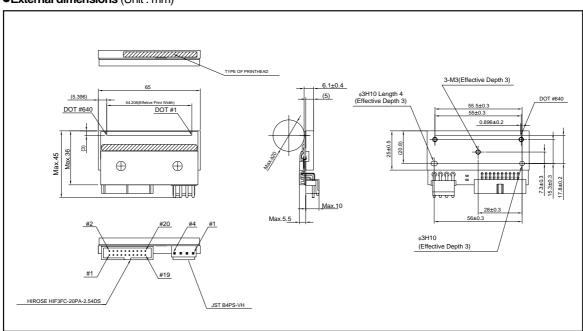
Applications

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

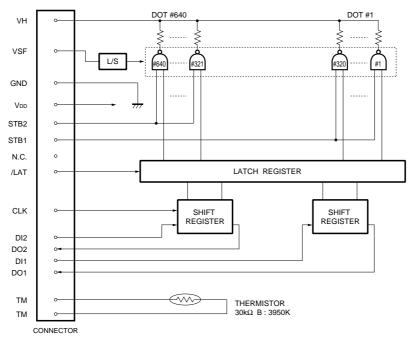
Features

- Perform 150km life time adopting new protective coat.
 (Perform three times life time by coefficient of abrasion which 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)



●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 320		
DI2	321 to 640		

STB No.	DOT No.
STB1	1 to 320
STB2	321 to 640

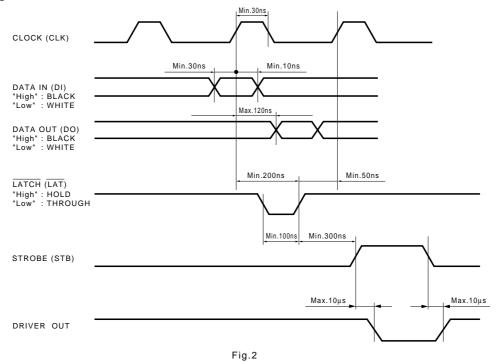
Fig. 1

●Pin configuration

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. N.C.				
7	D12	17					
8	DO2	18					
9	STB1	19	N.C.				
10	LAT	20	N.C.				

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

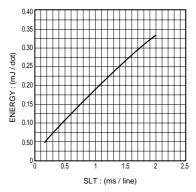
Timing chart



Characteristics

Parameter		Тур.	Unit
Effective printing width		54.21	mm
Dot pitch	_	0.0847	mm
Total dot number	_	640	dots
Average resistance value	Rave	1000	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.55	W / dot
Print cycle	SLT	0.83	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

Data sheet





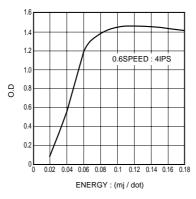


Fig.4 Representative density curve

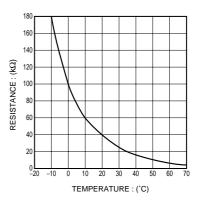


Fig.5 Thermistor curve

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