KD3004-DC10A

Thick Film Thermal Printhead (300dpi) KD3004-DC10A

KD3004-DC10A is developing type of GL40 series which are developed mainly for 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 KD3004-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.

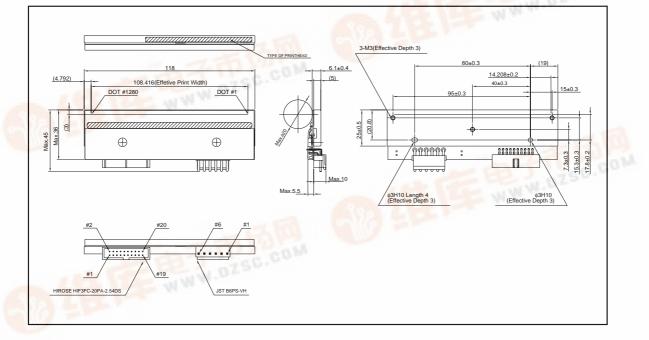
Applications

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

Features

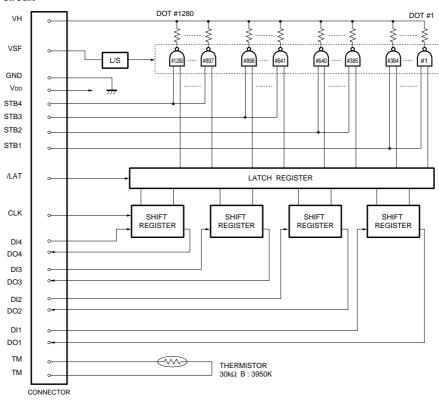
- 1) Perform 150km life time adopting new protective coat.
- (Perform three times life time by coefficient of abrasion which is about is about 1/10 of current mass-producing coat.) 2) Build in thermal high speeded heater and perform high printing 4 IPS. (100mm / s)
- 3) Available for thermal transfer 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 384	-
DI2	385 to 640	-
DI3	641 to 896	
DI4	897 to 1280	

STB No.	DOT No.		
STB1	1 to 384		
STB2	385 to 640		
STB3	641 to 896		
STB4	897 to 1280		

Fig. 1

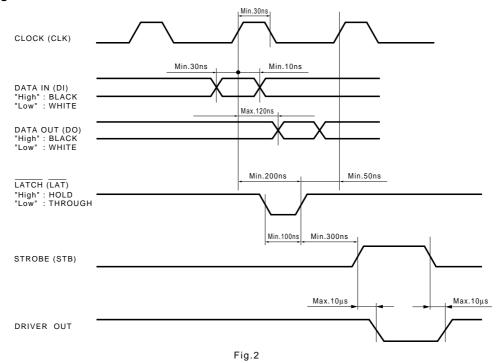
Pin configuration

CONNECTOR A					
No.	Circuit	No.	Circuit		
1	GND	11	ТМ		
2	VSF	12	ТМ		
3	GND	13 DI3			
4	Vdd	14	DO3		
5	STB4	15	DI2		
6	CLK	16	DO2		
7	DI4	17	STB2		
8	DO4	18	STB1		
9	STB3	19	DI1		
10	LAT	20	DO1		

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

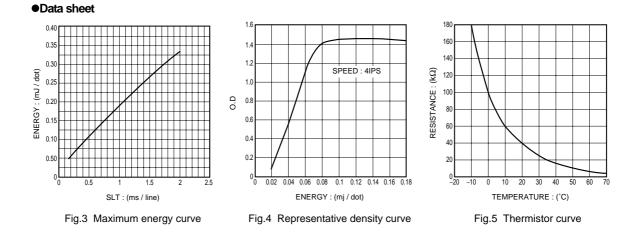


Timing chart



Characteristics

Parameter		Тур.	Unit
Effective printing width		108.42	mm
Dot pitch	-	0.0847	mm
Total dot number	-	1280	dots
Average resistance value	Rave	1000	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.51	W / dot
Print cycle	SLT	0.83	ms
Maximum number of dots energized simultaneously	_	1280	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



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Appendix

Notes

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