Thick film thermal printhead (11.8 dots / mm) KD3008-CF10A

The KD3008-CF10A is a A4-size thick-film thermal printhead, developed mainly for handy printers for personal computers.

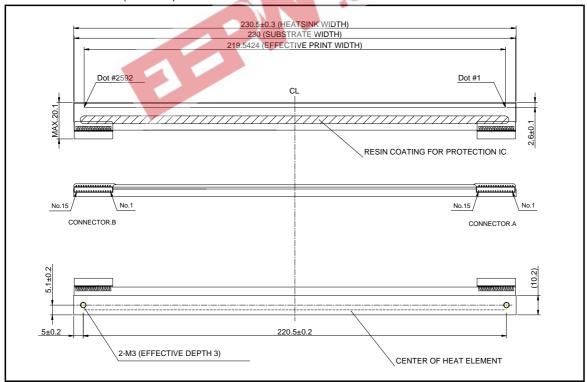
Applications

Plain-paper printers Low speed ticket vendors Measuring terminal printers

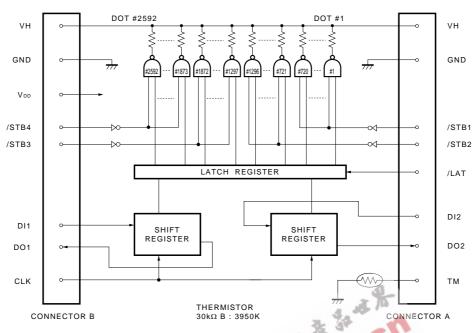
Features

- 1) A new pin connector structure greatly reduces the size and weight.
- 2) A newly developed 144-bit IC levels the strobe partition and reduces the noise level.
- 3) One rank resistance value of $1250\Omega\pm3\%$ eliminates provides good printing quality on rough paper.

●External dimensions (Unit:mm)



●Equivalent circuit



Pin assignments

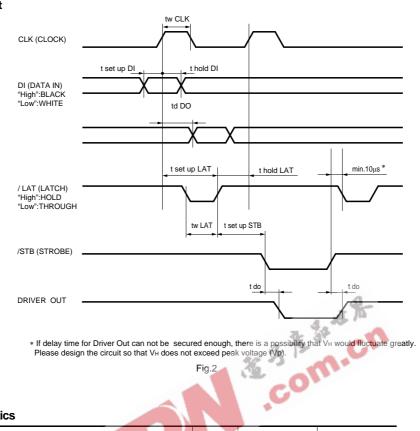
CONNECTOR B

0020.02				
No.	Circuit			
1	GND			
2	GND			
3	GND			
4	GND			
5	V _{DD}			
6	/STB3			
7	/STB4			
8	CLK			
9	DI1			
10	DO1			
11	VH			
12	VH			
13	VH			
14	VH			
15	VH			

CONNECTOR A

- CONTROLL TO				
No.	Circuit			
1	VH			
2	VH			
3	VH			
4	VH			
5	DI2			
6	DO2			
7	/LAT			
8	/STB1			
9	/STB2			
10	TM			
11	GND			
12	GND			
13	GND			
14	GND			
15	GND			

Timing chart



Characteristics

- Gridi dotoriolio			
Parameter		Typical	Unit
Effective printing width		219.542	mm
Dot pitch	_	0.0847	mm
Total dot number	_	2592	dots
Average resistance value		1250	Ω
Applied voltage		24.0	V
Applied power	Po	0.23	W / dot
Print cycle	SLT	1.11	ms
Pulse width	Том	0.51	ms
Maximum number of dots energized simultaneously	_	1296	dots
Maximum clock frequency	-	16	MHz
Maximum roller diameter	_	ф20.0	mm
Running life / pulse life	_	50 / 1×10 ⁸	km / pulses
Operating temperature	-	5 to 45	°C

•Electrical characteristic curves

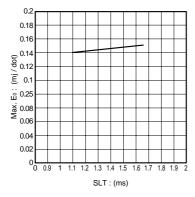


Fig.3 Adaptive speed chart

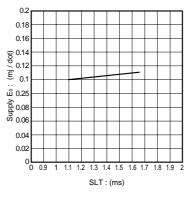


Fig.4 Maximum energy curve

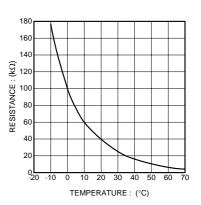


Fig. 5 Thermistor curve



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