# 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.

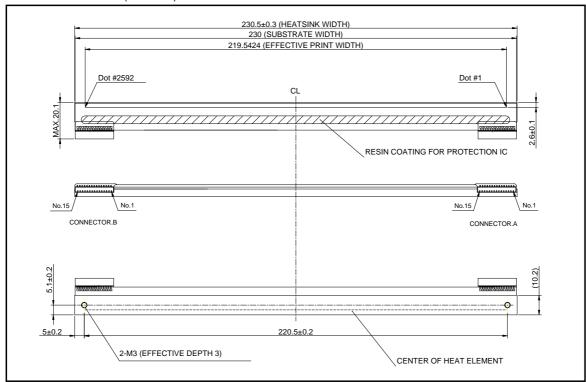
# Applications

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

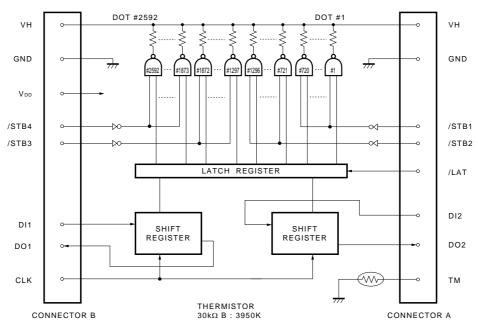


Fig.1

# Pin assignments

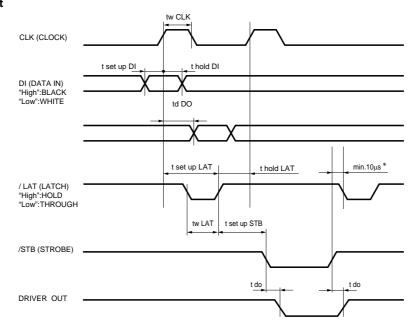
CONNE	CT	OR.	R

CONTROLOND				
No.	Circuit			
1	GND			
2	GND			
3	GND			
4	GND			
5	V <sub>DD</sub>			
6	/STB3			
7	/STB4			
8	CLK			
9	DI1			
10	DO1			
11	VH			
12	VH			
13	VH			
14	VH			
15	VH			

# CONNECTOR A

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



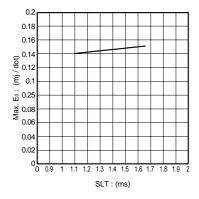
<sup>\*</sup> If delay time for Driver Out can not be secured enough, there is a possibility that VH would fluctuate greatly. Please design the circuit so that VH does not exceed peak voltage (Vp).

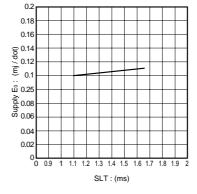
Fig.2

# Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	_	219.542	mm
Dot pitch	_	0.0847	mm
Total dot number	_	2592	dots
Average resistance value	Rave	1250	Ω
Applied voltage	Vн	24.0	V
Applied power	Po	0.23	W / dot
Print cycle	SLT	1.11	ms
Pulse width	Ton	0.51	ms
Maximum number of dots energized simultaneously	_	1296	dots
Maximum clock frequency	_	16	MHz
Maximum roller diameter	_	φ20.0	mm
Running life / pulse life	_	50 / 1×10 <sup>8</sup>	km / pulses
Operating temperature	_	5 to 45	°C

# •Electrical characteristic curves





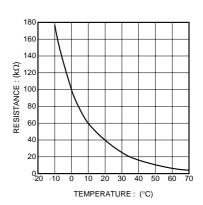


Fig.3 Adaptive speed chart

Fig.4 Maximum energy curve

Fig. 5 Thermistor curve

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