Compact low speed thick film thermal printhead (8 dots / mm) KF2004-GH10A

The KF2004-GH10A is a compact and lightweight thick-film thermal printhead with a printing speed of 2 inches/second, developed mainly for ECRs.

Applications

Cash registers

Label printers

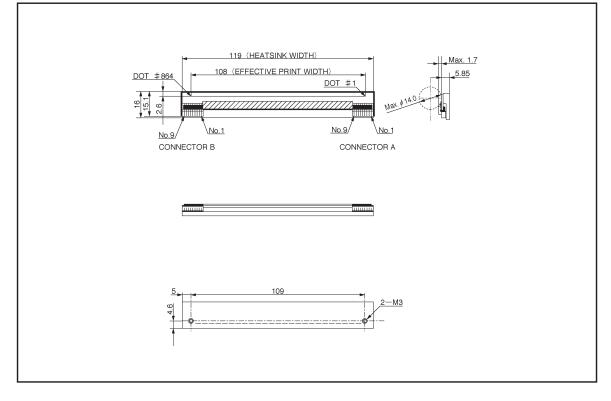
Receipt printers

General purpose compact printers

Features

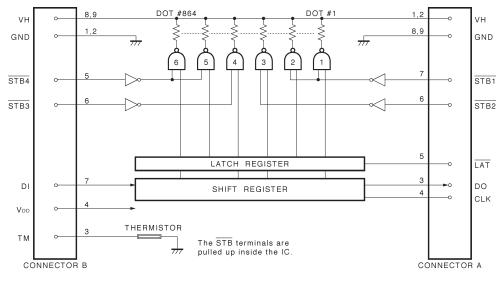
- 1) A new pin connector structure greatly reduces the size and weight.
- 2) A newly developed 144-bit IC levels the strobe partition and reduces the noise level.
- 3) One rank resistance value of 1500 $\Omega\pm3\%$ eliminates the inconvenience of rank selection.
- 4) 2-inch, 3-inch, and 4-inch series are available.

External dimensions (Units: mm)



Printheads

Equivalent circuit



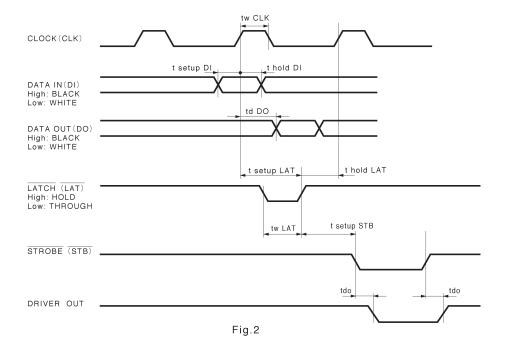


Pin assignments

CONNECTOR B		CONNECTOR A		
No.	Circuit	No.	Circuit	
1	GND	1	VH	
2	GND	2	VH	
3	ТМ	3	DO	
4	Vdd	4	CLK	
5	STB4	 5	LAT	
6	STB3	6	STB2	
7	DI	7	STB1	
8	VH	 8	GND	
9	VH	9	GND	

Printheads

Timing chart



Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width		108.0	mm
Dot pitch	—	0.125	mm
Total dot number	—	864	dots
Average resistance value	Rave	1500	Ω
Applied voltage	Vн	24.0	V
Applied power	Po	0.30	W / dot
Print cycle	SLT	2.5	ms
Pulse width	Τον	0.73	ms
Maximum number of dots energized simultaneously	—	432	dots
Maximum clock frequency	—	4	MHz
Maximum roller diameter	—	¢ 14.0	mm
Running life / pulse life	—	50 / 5×10 ⁷	km / pulses
Operating temperature	_	5~45	°C



Printheads

•Electrical characteristic curves

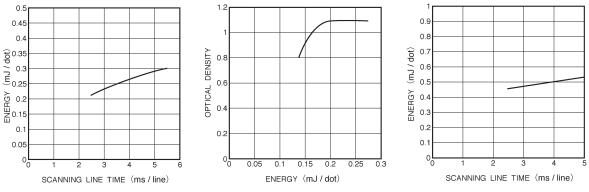


Fig. 3 Adaptive speed chart

Fig. 4 Representative density curve

Fig. 5 Maximum energy curve

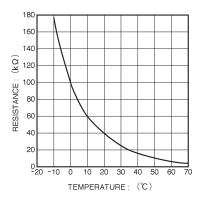


Fig. 6 Thermistor curve