Compact low speed thick film thermal printhead (8 dots / mm) KF2003-GH10A

The KF2003-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

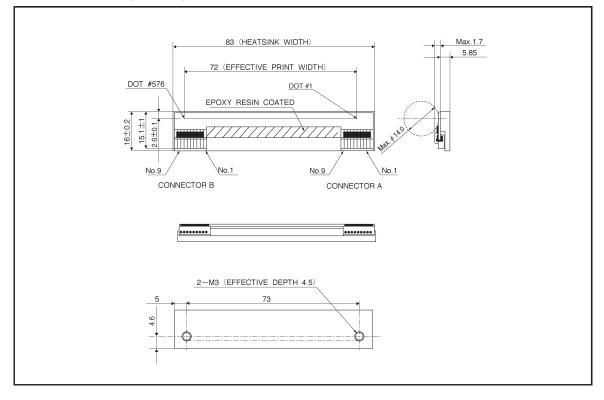
Receipt printers

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

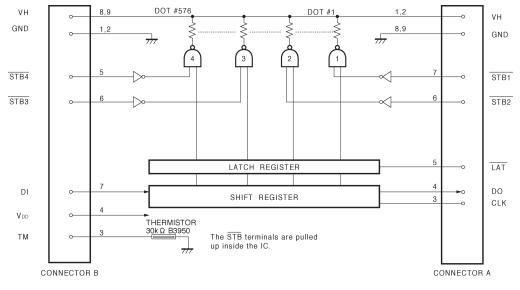


Fig. 1

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

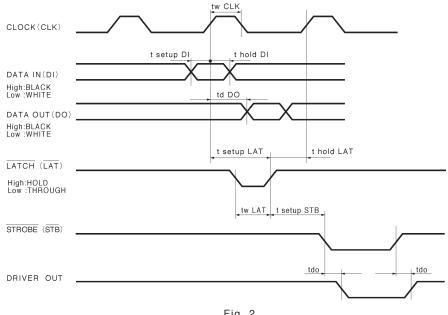
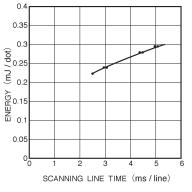


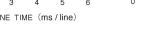
Fig. 2

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	-	72.0	mm
Dot pitch	-	0.125	mm
Total dot number	-	576	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	Том	0.73	ms
Maximum number of dots energized simultaneously	-	288	dots
Maximum clock frequency	_	4	MHz
Maximum roller diameter	_	<i>ф</i> 14.0	mm
Running life / pulse life	-	50 / 5×10 ⁷	km / pulses
Operating temperature	-	5~45	°C

Electrical characteristic curves





1.4

1.2

1

Fig. 3 Adaptive speed chart

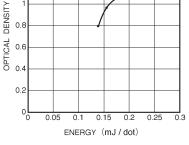


Fig. 4 Representative density curve

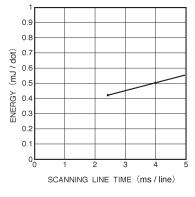


Fig. 5 Maximum energy curve

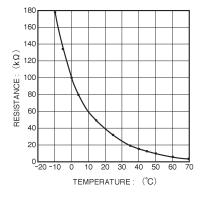


Fig. 6 Thermistor curve