Compact low speed thick film thermal printhead (8 dots / mm) KF2002-GH10A

The KF2002-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

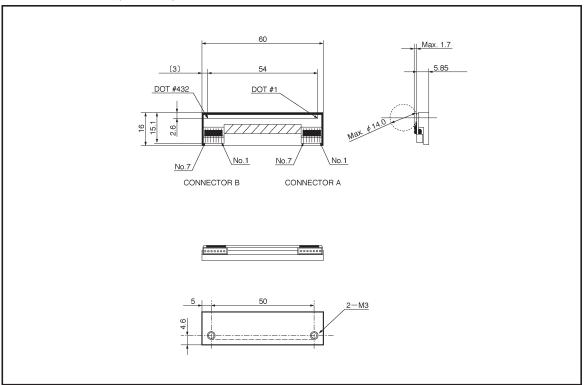
Receipt printers

General purpose compact printers

Features

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

External dimensions (Units: mm)



●Equivalent circuit

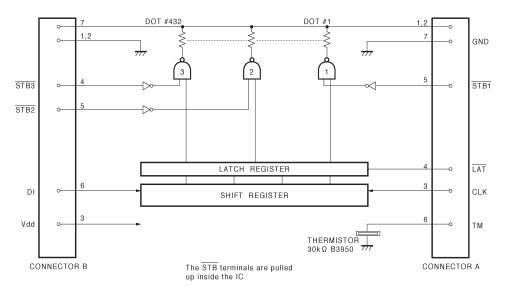


Fig. 1

Pin assignments

CONNECTOR B				
No.	Circuit			
1	GND			
2	GND			
3	V _{DD}			
4	STB3			
5	STB2			
6	DI			
7	VH			

CONNECTOR A			
No.	Circuit		
1	VH		
2	VH		
3	CLK		
4	LAT		
5	STB1		
6	TM		
7	GND		

Timing chart

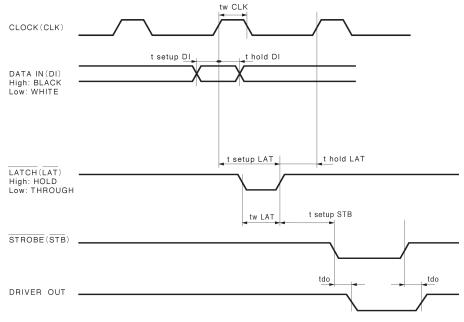


Fig. 2

Characteristics

Parameter		Typical	Unit
Effective printing width		54.0	mm
Dot pitch	_	0.125	mm
Total dot number	_	432	dots
Average resistance value	Rave	1500	Ω
Applied voltage	Vн	24.0	V
Applied power	Po	0.33	W / dot
Print cycle	SLT	2.5	ms
Pulse width	Ton	0.67	ms
Maximum number of dots energized simultaneously	_	144	dots
Maximum clock frequency	_	4	MHz
Maximum roller diameter	_	φ 14.0	mm
Running life / pulse life	_	50 / 5×10 ⁷	km / pulses
Operating temperature	_	5~45	°C

Printheads KF2002-GH10A

Electrical characteristic curves

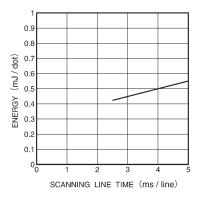


Fig. 3 Adaptive speed chart

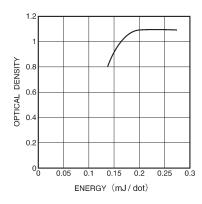


Fig. 4 Representative density curve

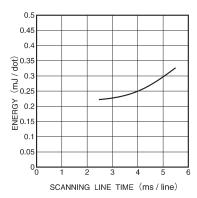


Fig. 5 Maximum energy curve

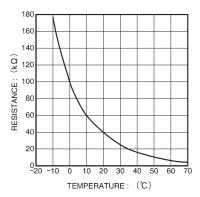


Fig. 6 Thermistor curve