

Printheads

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.

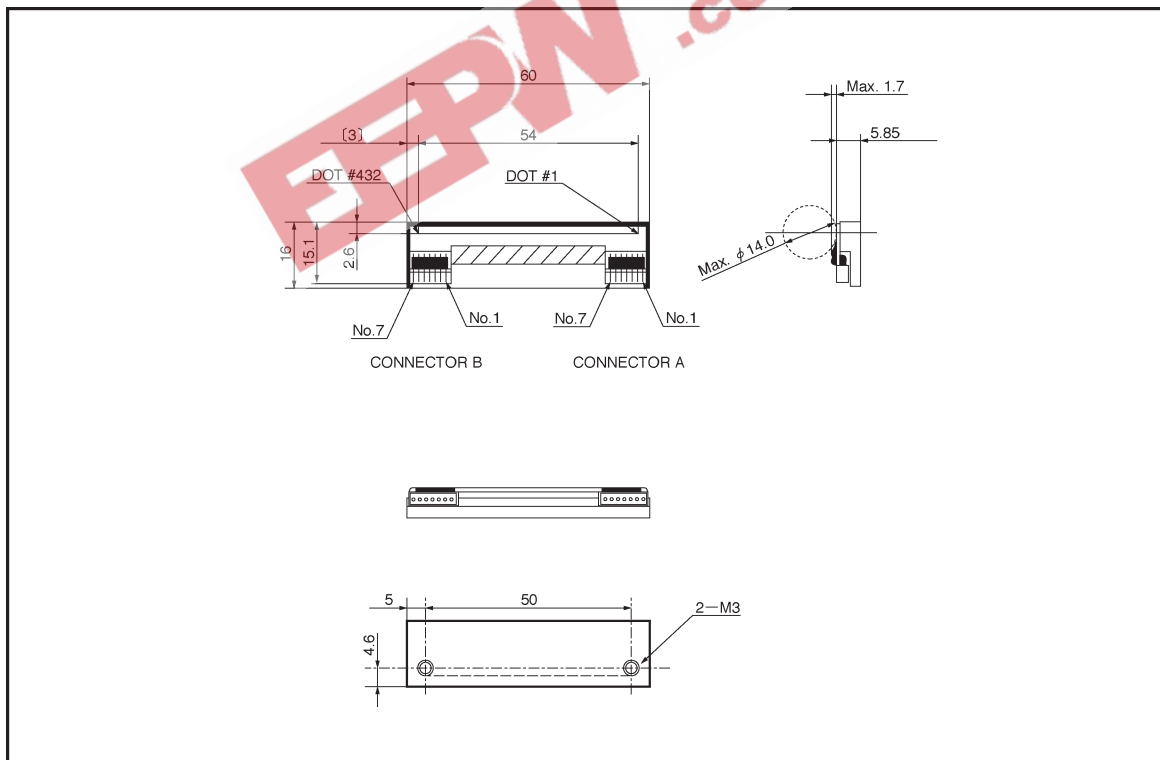
●Applications

Cash registers
Label printers
Receipt printers
General purpose compact printers

●Features

- 1) A new pin connector structure greatly reduces the size and weight.
- 2) 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

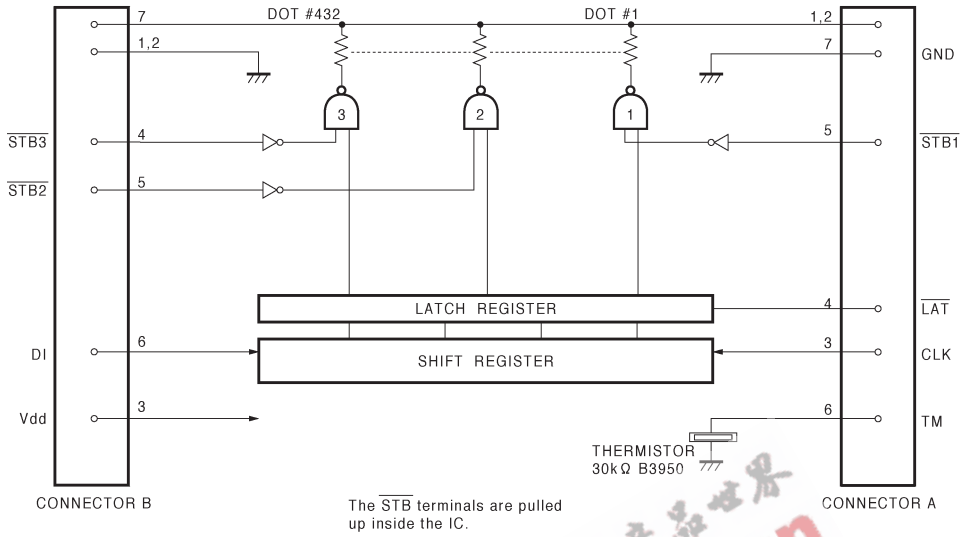


Fig. 1

●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

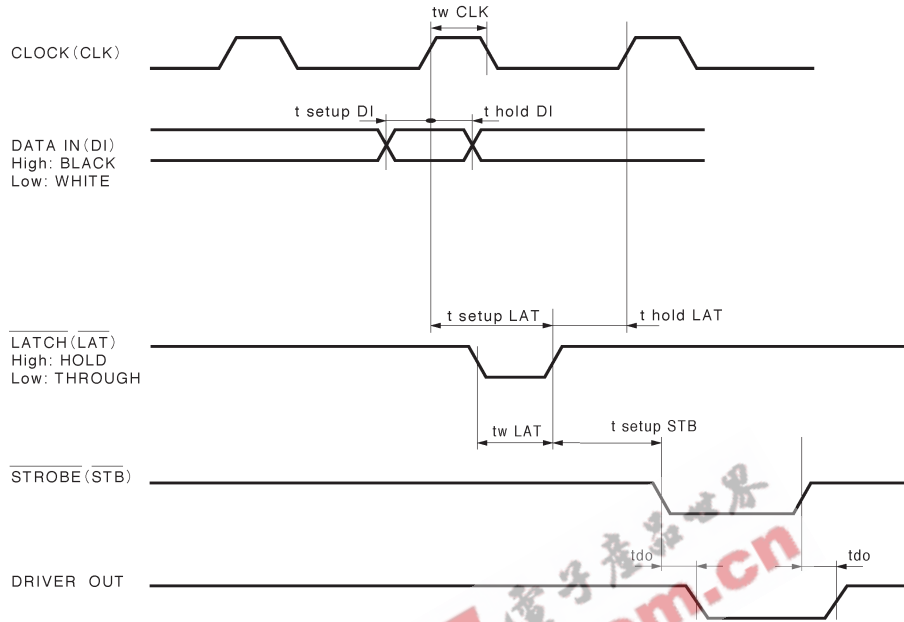


Fig. 2

●Characteristics

Parameter	Symbol	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	V_H	24.0	V
Applied power	P_O	0.33	W / dot
Print cycle	SLT	2.5	ms
Pulse width	T_{ON}	0.67	ms
Maximum number of dots energized simultaneously	—	144	dots
Maximum clock frequency	—	4	MHz
Maximum roller diameter	—	$\phi 14.0$	mm
Running life / pulse life	—	$50 / 5 \times 10^7$	km / pulses
Operating temperature	—	5~45	$^{\circ}\text{C}$

●Electrical characteristic curves

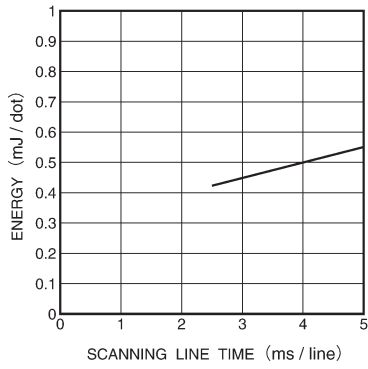


Fig. 3 Adaptive speed chart

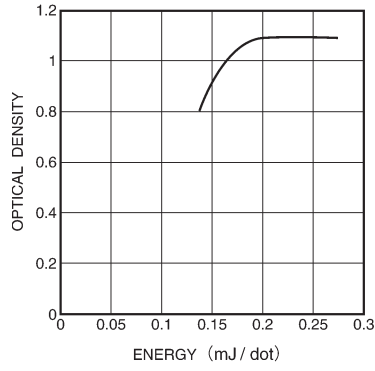


Fig. 4 Representative density curve

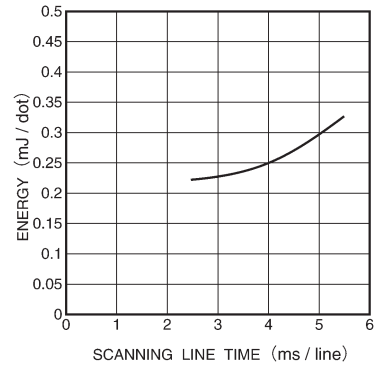


Fig. 5 Maximum energy curve

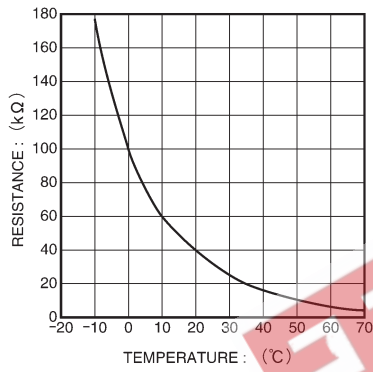


Fig. 6 Thermistor curve