Compact low speed thick film thermal printhead (8 dots / mm) KF2003-GF10A

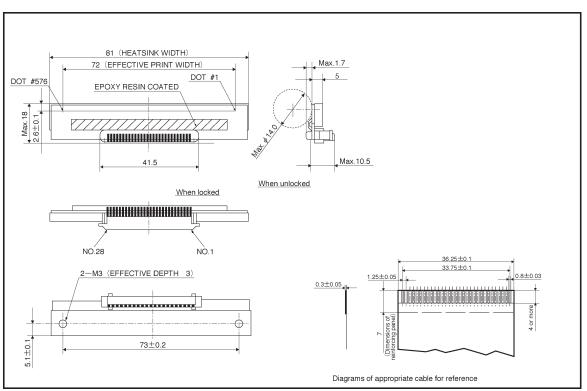
The KF2003-GF10A is a standard type 5 V thermal printhead, developed mainly for handy printers. Maximum printing speed of 2 inch / second is possible.

ApplicationsHandy printersReceipt printers

Features

- Five STB terminals and two AEO terminals provides nine partitions to enable low current printing.
- 2) Simple structure with our clip connector reduces the size and weight.

External dimensions (Units: mm)



●Equivalent circuit

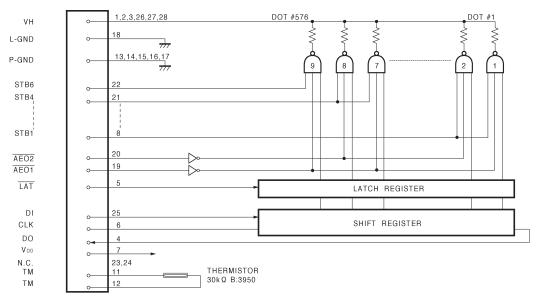


Fig. 1

Pin assignments

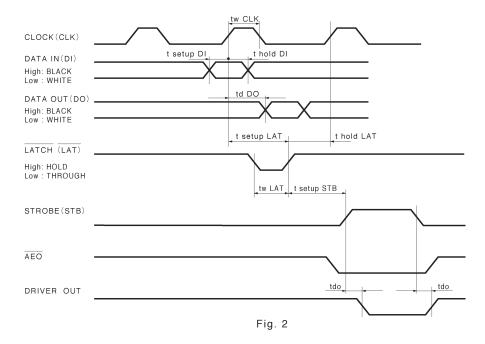
No.	Circuit			
1	VH			
2	VH			
3	VH			
4	DO			
5	LAT			
6	CLK			
7	V _{DD}			
8	STB1			
9	STB2			
10	STB3			
11	TM			
12	TM			
13	P-GND			
14	P-GND			

No.	Circuit			
15	P-GND			
16	P-GND			
17	P-GND			
18	L-GND			
19	AEO1			
20	AEO2			
21	STB4			
22	STB5			
23	N.C.			
24	N.C.			
25	DI			
26	VH			
27	VH			
28	VH			

L-GND: LOGIC GROUND P-GND: POWER GROUND

Printheads KF2003-GF10A

Timing chart



Characteristics

Parameter		Typical	Unit
Effective printing width		72.0	mm
Dot pitch		0.125	mm
Total dot number		576	dots
Average resistance value		142	Ω
Applied voltage	Vн	4.2~8.5	V
Applied power	Po	0.123	W / dot
Print cycle	SLT	5.0	ms
Pulse width	Ton	2.58	ms
Maximum number of dots energized simultaneously	_	64	dots
Maximum clock frequency	_	8	MHz
Maximum roller diameter	_	φ 14.0	mm
Running life / pulse life	_	50 / 5×10 ⁷	km / pulses
Operating temperature	_	5~45	°C

Printheads KF2003-GF10A

Electrical characteristic curves

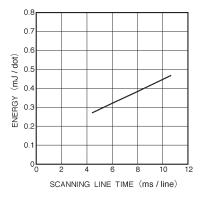


Fig. 3 Adaptive speed chart

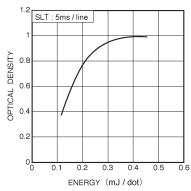


Fig. 4 Representative density curve

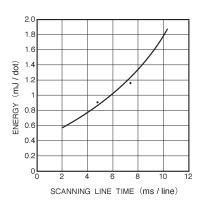


Fig. 5 Maximum energy curve

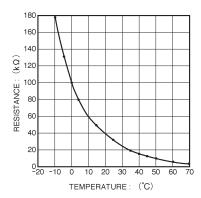


Fig. 6 Thermistor curve