

Compact low voltage thick film thermal printhead (8dots / mm)

KF2002-GF71A

These compact, lightweight printheads have low power requirements and are intended for ECR and mobile applications. Drawing 7.2V, a maximum print speed of 2 inches per second is possible.

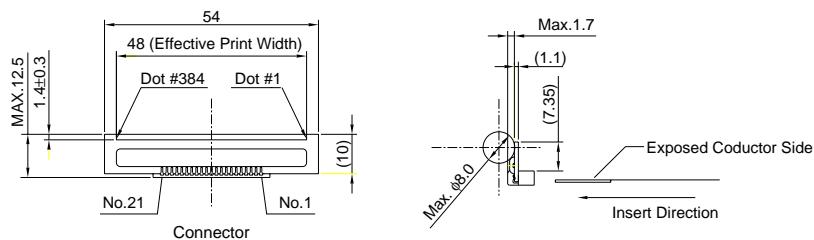
● Applications

ECR printers
Hand-held printers

● Features

- 1) A wide range of power supply voltage, from 4.2V-8.5V, can be used to drive the printhead. This gives the flexibility for use with printers designed to operate with power from various battery configurations.
- 2) To allow the design of compact printers for use in calculators and other mobile applications, the basic specifications of the unit have been standardized. This gives engineers greater freedom to develop mechanical designs.
- 3) One rank resistance value of $210\Omega \pm 4\%$ eliminates the inconvenience of rank selection.

● External dimensions (Units : mm)



Printheads

● Equivalent circuit

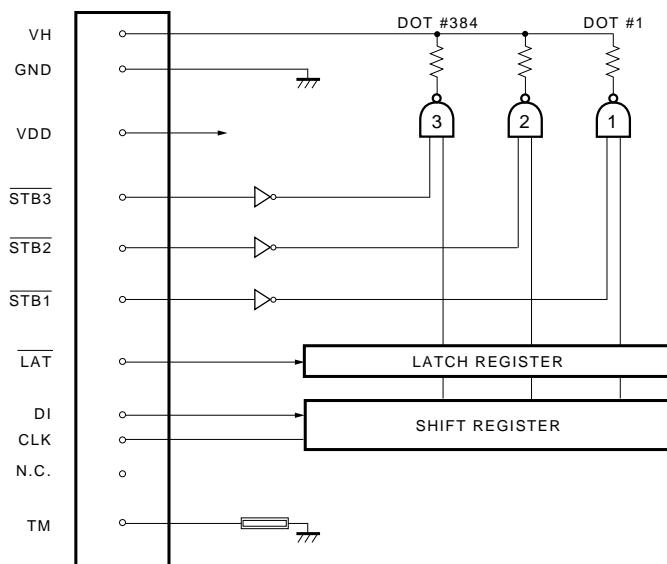


Fig.1

● Pin assignments

No.	Circuit
1	VH
2	VH
3	VH
4	N.C.
5	CLK
6	LAT
7	STB2
8	STB1
9	GND
10	GND
11	GND

No.	Circuit
12	GND
13	GND
14	GND
15	TM
16	V _{DD}
17	STB3
18	DI
19	VH
20	VH
21	VH

Printheads

●Timing chart

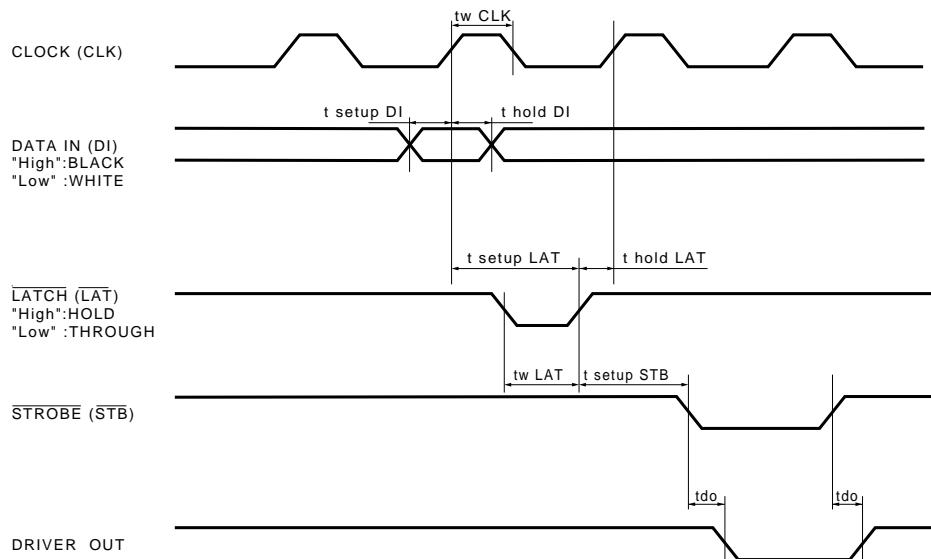


Fig.2

●Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	—	48	mm
Dot pitch	—	0.125	mm
Total dot number	—	384	dots
Average resistance value	Rave	210	Ω
Applied voltage	V _H	7.2	V
Applied power	P _O	0.14	W/dot
Print cycle	SLT	2.5	ms
Pulse width	T _{ON}	1.64	ms
Maximum number of dots energized simultaneously	—	144	dots
Maximum clock frequency	—	4	MHz
Maximum roller diameter	—	φ8.0	mm
Running life / pulse life	—	50/1×10 ⁸	km/pulses
Operating temperature	—	5~45	°C

Printheads

● Electrical characteristic curves

