Compact medium speed thick film thermal printhead (8 dots / mm) KF2003-GC10A

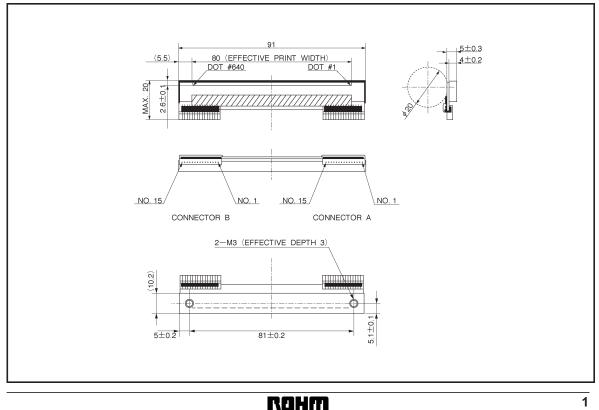
The KF2003–GC10A is a standard 24 V thick-film thermal printhead with a printing speed of 3 inches/second, developed mainly for label printers.

Applications Label printers **Ticket printers** Terminal printers

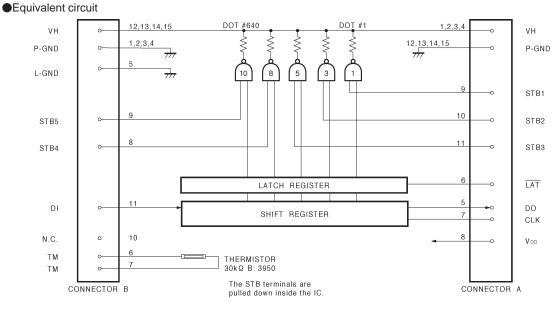
Features

- 1) A new pin connector structure greatly reduces the size and weight.
- 2) A newly developed driving IC improves data transmission speed (8MHz) and ON resistance (half of the conventional product) to support a wide variety of control methods.
- 3) One rank resistance value of $800\Omega \pm 3\%$ eliminates the inconvenience of rank selection.
- 4) 2-inch, 3-inch and 4-inch series are available.

External dimensions (Units: mm)



Printheads





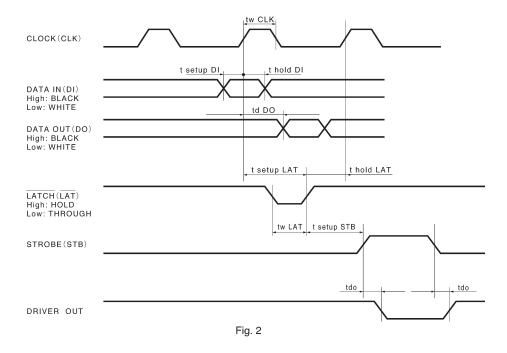
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CONNECTOR A				
No.	Circuit			
1	VH			
2	VH			
3	VH			
4	VH			
5	DO			
6	LAT			
7	CLK			
8	Vdd			
9	STB1			
10	STB2			
11	STB3			
12	P-GND			
13	P-GND			
14	P-GND			
15	P-GND			

CONNECTOR B					
No.	Circuit				
1	P-GND				
2	P-GND				
3	P-GND				
4	P-GND				
5	L-GND				
6	ТМ				
7	ТМ				
8	STB4				
9	STB5				
10	N.C.				
11	DI				
12	VH				
13	VH				
14	VH				
15	VH				

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

Printheads

Timing chart



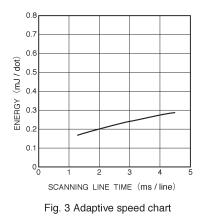
Characteristics

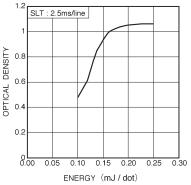
Parameter		Typical	Unit
Effective printing width		80	mm
Dot pitch		0.125	mm
Total dot number		640	dots
Average resistance value		800	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.63	W / dot
Print cycle	SLT	2.5	ms
Pulse width	Τον	0.35	ms
Maximum number of dots energized simultaneously	-	384	dots
Maximum clock frequency	-	8	MHz
Maximum roller diameter	_	<i>φ</i> 20.0	mm
Running life / pulse life	-	50 / 5×10 ⁷	km / pulses
Operating temperature	_	5~45	Ĵ



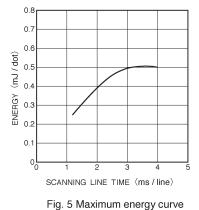
Printheads

Electrical characteristic curves











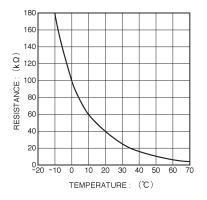


Fig. 6 Thermistor curve