Compact low speed thick film thermal printhead (8 dots / mm) KF2004-GE10A

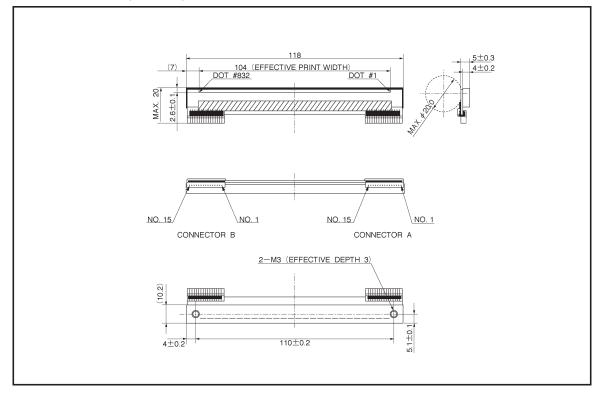
The KF2004-GE10A is a standard 12 V compact and lightweight thick-film thermal printhead, developed mainly for label printers. Maximum printing speed of 2 inch / second is possible with external simple history control.

Applications
Bar code label printers
Portable printers
Label printers

Features

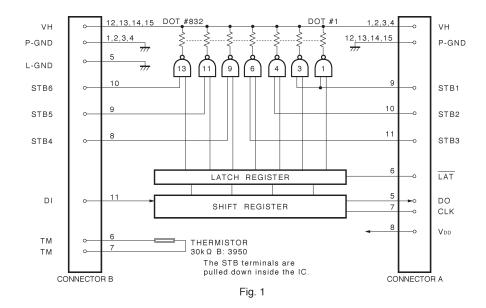
- 1) A new pin connector structure greatly reduces the size and weight.
- 2) Completely compatible with the KF2004-GC10A (24 V standard type) in shape to enable sets with a common design.
- 3) Hard protective coating on the heating element meets the demand for long life labels.
- 4) 2-inch, 3-inch and 4-inch series are available.

External dimensions (Units: mm)



Printheads

Equivalent circuit



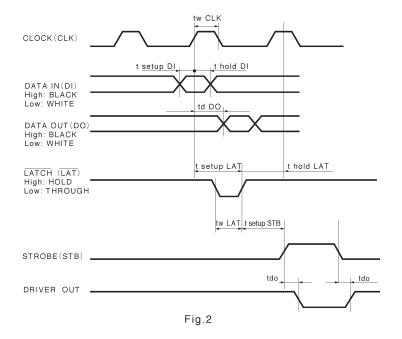
Pin assignments

-	0		
CC	NNECTOR A	CC	N
No.	Circuit	No.	
1	VH	1	
2	VH	2	
3	VH	 3	
4	VH	 4	
5	DO	 5	
6	LAT	 6	
7	CLK	 7	
8	Vdd	 8	
9	STB1	 9	
10	STB2	 10	
11	STB3	 11	
12	P-GND	 12	
13	P-GND	13	
14	P-GND	 14	
15	P-GND	15	

	Circuit P-GND			
1 F	P-GND			
	GILD			
2 F	P-GND			
3 F	P-GND			
4 F	P-GND			
5 L	L-GND			
6	TM			
7	ТМ			
8	STB4			
9	STB5			
10	STB6			
11	DI			
12	VH			
13	VH			
14	VH			
15	VH			

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

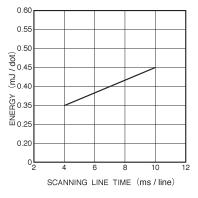
Timing chart

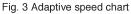


Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	_	104	mm
Dot pitch	_	0.125	mm
Total dot number	_	832	dots
Average resistance value	Rave	350	Ω
Applied voltage	Vн	12.0	V
Applied power	Po	0.32	W / dot
Print cycle	SLT	4.0	ms
Pulse width	Том	0.93	ms
Maximum number of dots energized simultaneously	_	448	dots
Maximum clock frequency	_	4	MHz
Maximum roller diameter	_	φ 20.0	mm
Running life / pulse life	_	50 / 5×10 ⁷	km / pulses
Operating temperature		5~45	Ĵ

Electrical characteristic curves





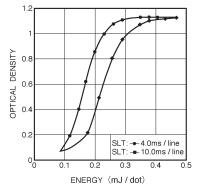
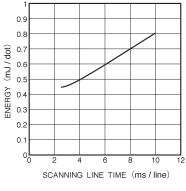


Fig. 4 Representative density curve





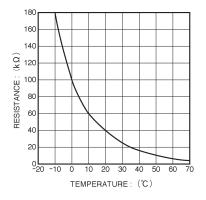


Fig. 6 Thermistor curve