Compact low speed thick film thermal printhead (8 dots / mm) KF2002-GE10A

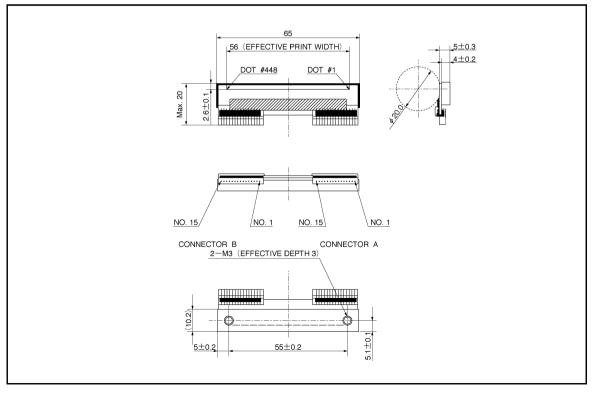
The KF2002-GE10A is a standard type 12 V compact and lightweight thick-film thermal printhead, developed mainly for label printers. Maximum printing speed of 2 inch/second is possible with external simple history control.

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 KF2002-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.

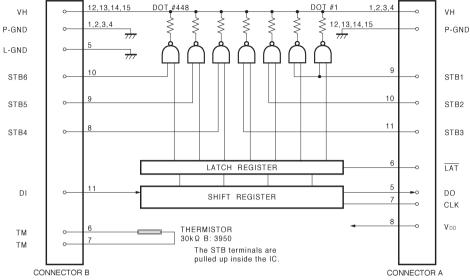
External dimensions (Units: mm)





Printheads

Equivalent circuit





Pin assignments

CONNECTOR B				
No.	Circuit			
1	P-GND			
2	P-GND			
3	P-GND			
4	P-GND			
5	L-GND			
6	ТМ			
7	TM			
8	STB4			
9	STB5			
10	STB6			
11	DI			
12	VH			
13	VH			
14	VH			
15	VH			

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			

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



Printheads

Timing chart

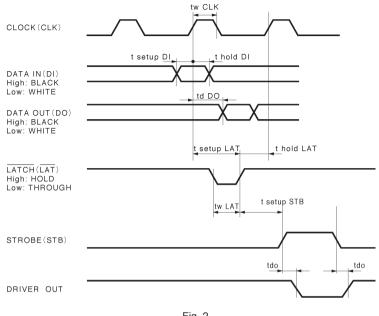


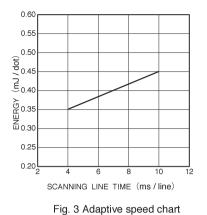
Fig. 2

Characteristics

Parameter		Typical	Unit
Effective printing width		56	mm
Dot pitch		0.125	mm
Total dot number		448	dots
Average resistance value		350	Ω
Applied voltage	Vн	12.0	V
Applied power	Po	0.32	W / dot
Print cycle	SLT	4.0	ms
Pulse width	Ton	0.85	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



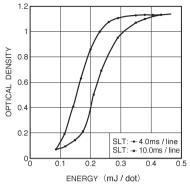


Fig. 4 Representative density curve

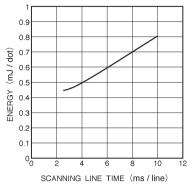


Fig. 5 Maximum energy curve

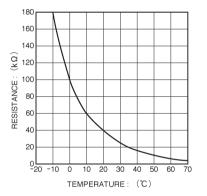


Fig. 6 Thermistor curve

