Thick film thermal printhead

KF2006-GL50A

The new high speed thick-film G-series (direct mount clip-pin interconnect) with the fast response anti-ESD thermal element and durable new protection film.

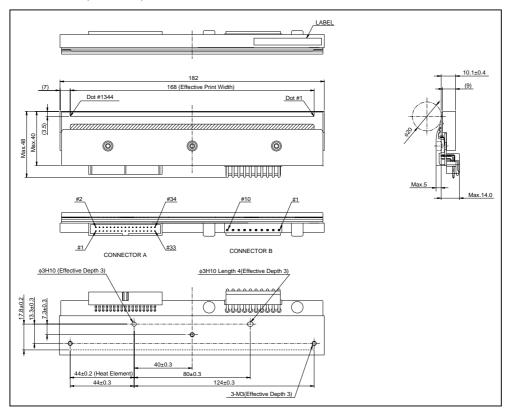
Applications

High speed label printer
High speed bar code printer
High speed ticket printer
Various high speed terminal printers

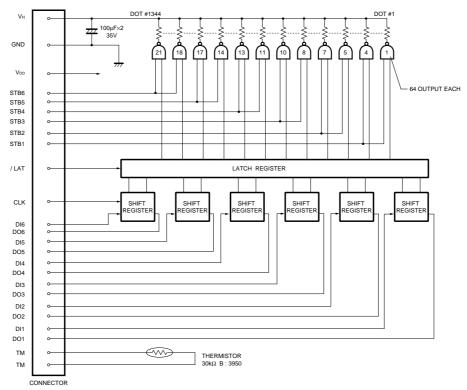
Features

- 1) Newly developed thick-film fast response thermal element is employed for this series and 6 inches/s or 150 mm/s is possible without thermal history control. It is possible to print 10 inches/s or 250 mm/s if external thermal history control is used.
- 2) 150km life realized by attributing durable new protection film.
- 3) New partial glaze construction makes it compatible with the thermal transfer application.
- 4) Market-proven G-series printhead construction ensures high reliability.

●External dimensions (Units : mm)



●Equivalent circuit



	DI No.	DOT No.
	DI1	1~256
	DI2	257~448
	DI3	449~640
	DI4	641~832
•	DI5	833~1088
	DI6	1089~1344

STB No.	DOT No.		
STB1	1~256		
STB2	257~448		
STB3	449~640		
STB4	641~832		
STB5	833~1088		
STB6	1089~1344		

Fig.1

●Pin assignments

CONNECTOR A

No.	Circuit	No.	Circuit	
1	GND	18	STB6	
2	V _{DD}	19	CLK	
3	GND	20	/ LAT	
4	V _{DD}	21	TM	
5	NC	22	TM	
6	NC	23	STB3	
7	NC	24	STB4	
8	NC	25	STB1	
9	NC	26	STB2	
10	NC	27	DI4	
11	DI6	28	DO4	
12	DO6	29	DI3	
13	DI5	30	DO3	
14	DO5	31	DI2	
15	NC	32	DO2 DI1	
16	NC	33		
17	STB5	34	DO1	

CONNECTOR B

Circuit		
Vн		
GND		

Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width		168	mm
Dot pitch	-	0.125	mm
Total dot number	-	1344	dots
Average resistance value	Rave	650	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.49	W/dot
Print cycle	SLT	0.83	ms
Pulse width	Ton	0.33	ms
Maximum number of dots energized simultaneously		704	dots
Maximum clock frequency	_	8	MHz
Maximum roller diameter	_	ф20.0	mm
Running life / pulse life	_	150/(1×10 ⁸)	km/pulses
Operating temperature	_	5~45	°C

●Data sheets

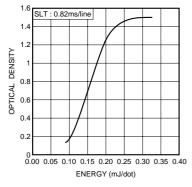


Fig.2 Representative density curve

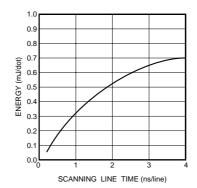


Fig.3 Maximum energy curve

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