Thick film thermal printhead

KF3006-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

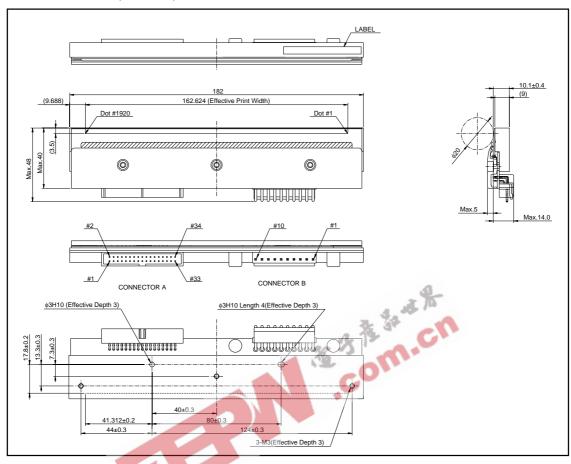
High speed label printer
High speed bar code printer
High speed ticket printer
Various high speed terminal printers

Features

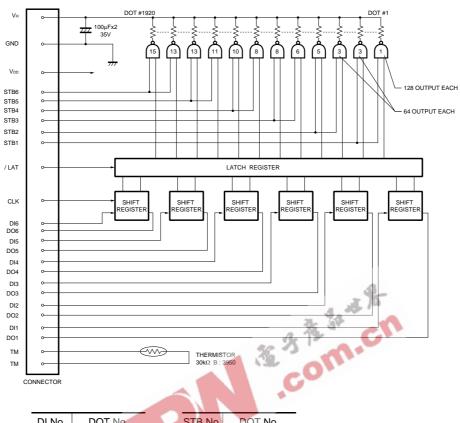
- 1) Newly developed thick-film fast response thermal element is employed for this series and 6 inches/s or 150 mm/s is possible without thermal history control. It is possible to print 10 inches/s or 250 mm/s if external thermal history control is used.
- 2) 150km life realized by attributing durable 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	1~320
DI2	321~640
DI3	641~960
DI4	961~1280
DI5	1281~1600
DI6	1601~1920

STB No.	DOT No.
STB1	1~320
STB2	321~640
STB3	641~960
STB4	961~1280
STB5	1281~1600
STB6	1601~1920

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	
16	NC	33	DI1	
17	STB5	34	DO1	

CONNECTOR B

No.	Circuit
1	Vн
2	Vн
3	Vн
4	Vн
5	Vн
6	GND
7	GND
8	GND
9	GND
10	GND

Characteristics

12	DO6	29	DI3			
13	DI5	30	DO3			
14	DO5	31	DI2			
15	NC	32	DO2			3, 15, 14
16	NC	33	DI1		. 3	E 30
17	STB5	34	DO1		20 75	1
●Ch	aracteristics				,c	om.cn
	Parameter			Symbol	Typical	Unit
Effe	Effective printing width		-	162.624	mm	
Dot pitch			-	0.0847	mm	
Total dot number			_	1920	dots	
Average resistance value		Rave	1250	Ω		
Applied voltage			Vн	24	V	
Applied power			Po	0.49	W/dot	
Print cycle		SLT	0.83	ms		
Pulse width			Ton	0.32	ms	
Maximum number of dots energized simultaneously		_	960	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

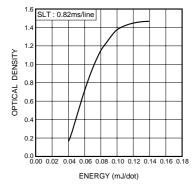


Fig.2 Representative density curve

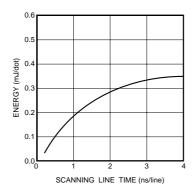


Fig.3 Maximum energy curve



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