Thick film thermal printhead (8 dots / mm) KF2004-GL41A

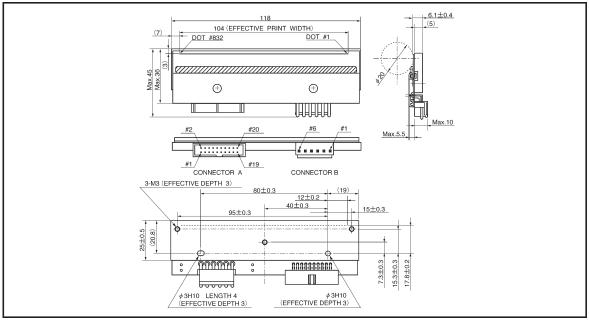
The KF2004-GL41A is a 24 V standard thick film thermal printhead with a printing speed up to 6 inch / second that has been developed mainly for label printer use. (This product is a development product, so please contact ROHM for more details.)

Applications

High-speed barcode label printer High-speed ticket printer High-speed multi-purpose small-sized printers

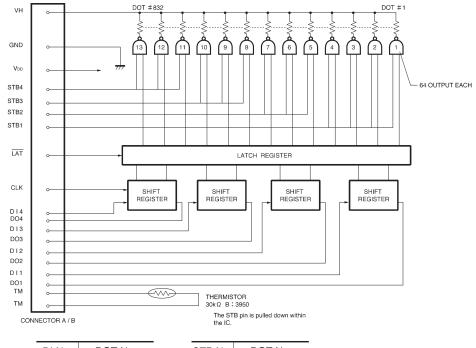
Features

- With the newly designed thick film high-speed heater, the KF2004-GL41A achieves high-speed printing of up to 6 inch / second (150 mm / second) without heat history control. With heat history control, the super high speed of 10 inch / second (250 mm / second) is achievable.
- The use of the hard highly-durable conductive protective film ensures a long product life.
- Uses a special partial glaze construction for support of thermal transfer printing.
- Uses the thick film G-series structure (see "Features" on page 138) to provide you the proven record that the G-series has attained on the market.



External dimensions (Units: mm)

Equivalent circuit



DI No.	DOT No.		
DI 1	1~256		
DI 2	257~448		
DI 3	449~640		
DI 4	641~832		

STB No.	DOT No.		
STB1	1~256		
STB2	257~448		
STB3	449~640		
STB4	641~832		

Pin assignments

CONNECTOR A

No.	Circuit	No.	Circuit	
1	L-GND	11	TM	
2	Vdd	12	ТМ	
3	L-GND	13	DI3	
4	Vdd	14	DO3	
5	STB4	15	D 2	
6	CLK	16	DO2	
7	DI4	17	STB2	
8	DO4	18	STB1	
9	STB3	19	DI1	
10	LAT	20	DO1	

Fig.1

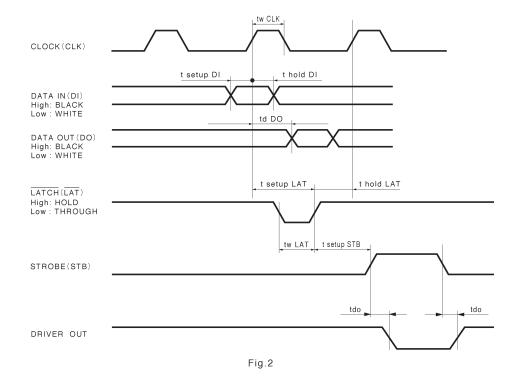
No.	Circuit		
1	VH		
2	VH		
3	VH		
4	P-GND		
5	P-GND		
6	P-GND		
L-GND: LOGIC GROU			

CONNECTOR B

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

Printheads

Timing chart



Characteristics

Parameter		Typical	Unit
Effective printing width	-	104	mm
Dot pitch	_	0.125	mm
Total dot number		832	dots
Average resistance value		550	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.90	W / dot
Print cycle	SLT	0.82	ms
Pulse width	Ton	0.27	ms
Maximum number of dots energized simultaneously		448	dots
Maximum clock frequency	_	8	MHz
Maximum roller diameter	_	¢ 20.0	mm
Running life / pulse life	-	50 / 5×10 ⁷	km / pulses
Operating temperature	_	5~45	°C

