Thick film thermal printhead (8 dots / mm) KF2002-GL41A

The KF2002-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

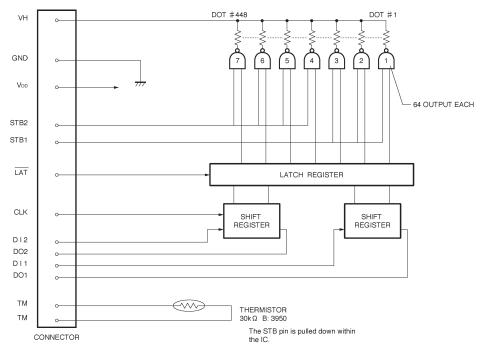
Features

- With the newly designed thick film high-speed heater, the KF2002-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 also supported.
- 2) The use of the hard highly-durable conductive protective film ensures a long product life.
- 3) Uses a special partial glaze construction for support of thermal transfer printing.
- 4) 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) 6.1±0.4 (4.5)EFFECTIVE PRINT WIDTH) DOT #448 \oplus \oplus Max. 10 #1__/ CONNECTOR A CONNECTOR B 3-M3 (EFFECTIVE DEPTH 3) DOT #448 (EFFECTIVE DEPTH 3) (20.8) RRRRRRRRRRR

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Equivalent circuit



DI No.	DOT No.		
DI 1	1~192		
DI 2	193~448		

STB No.	DOT No.
STB 1	1~192
STB 2	193~448

Fig. 1

Pin assignments

CONNECTOR A						
No.	Circuit	No. Circuit				
1	L-GND	11	TM			
2	V _{DD}	12	TM			
3	L-GND	13	DI1			
4	V _{DD}	14	DO1			
5	STB2	15	N.C.			
6	CLK	16	16 N.C.			
7	DI2	17	N.C.			
8	DO2	18	18 N.C.			
9	STB1	19	19 N.C.			
10	LAT	20	N.C.			

CONNECTOR B

No.	Circuit
1	VH
2	VH
3	P-GND
4	P-GND

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

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Timing chart

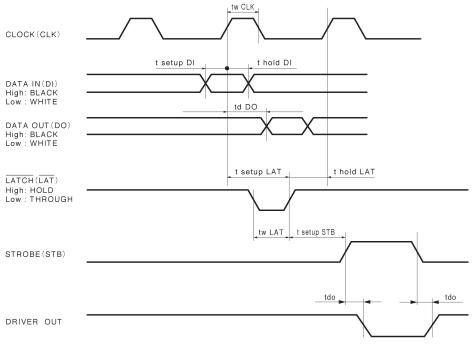


Fig.2

Characteristics

Parameter		Typical	Unit
Effective printing width	_	56	mm
Dot pitch	_	0.125	mm
Total dot number	_	448	dots
Average resistance value	Rave	550	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.93	W / dot
Print cycle	SLT	0.82	ms
Pulse width	Ton	0.26	ms
Maximum number of dots energized simultaneously	_	448	dots
Maximum clock frequency	_	8	MHz
Maximum roller diameter	_	<i>\$</i> 20.0	mm
Running life / pulse life	_	50 / 5×10 ⁷	km / pulses
Operating temperature	_	5~45	°C