

For Gaming Equipment, ATMs : CF, CG series

KD2002-CF10A

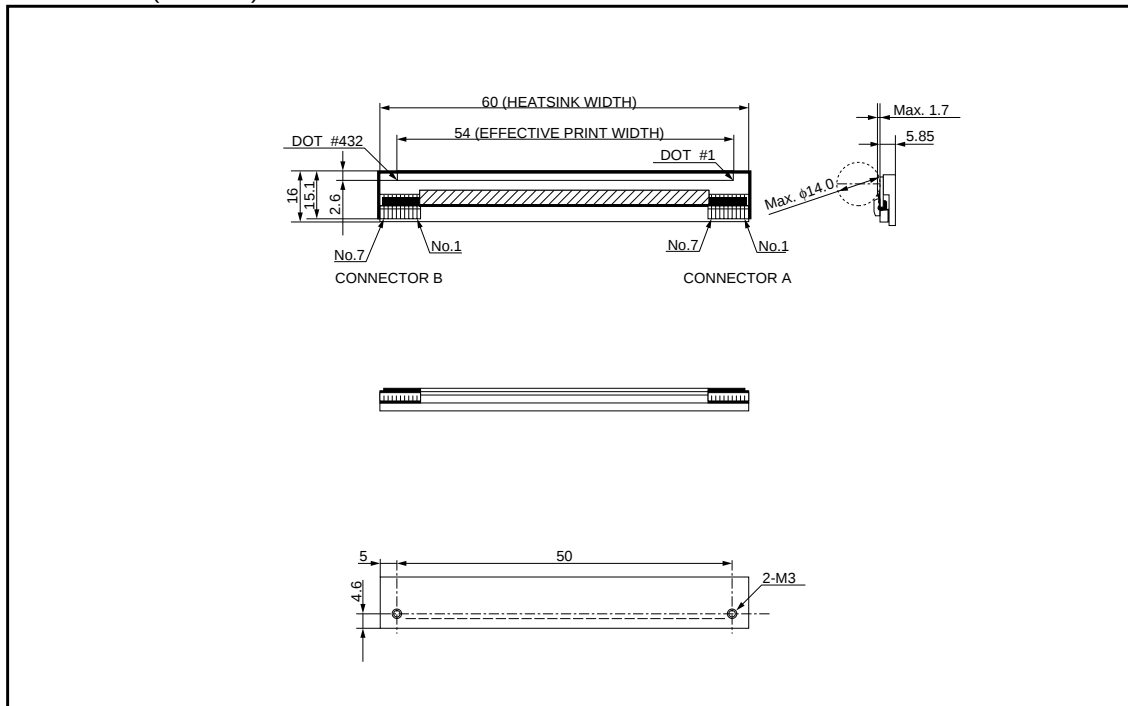
●Applications

POS printers
Label printers
Receipt printers
General purpose compact printers

●Features

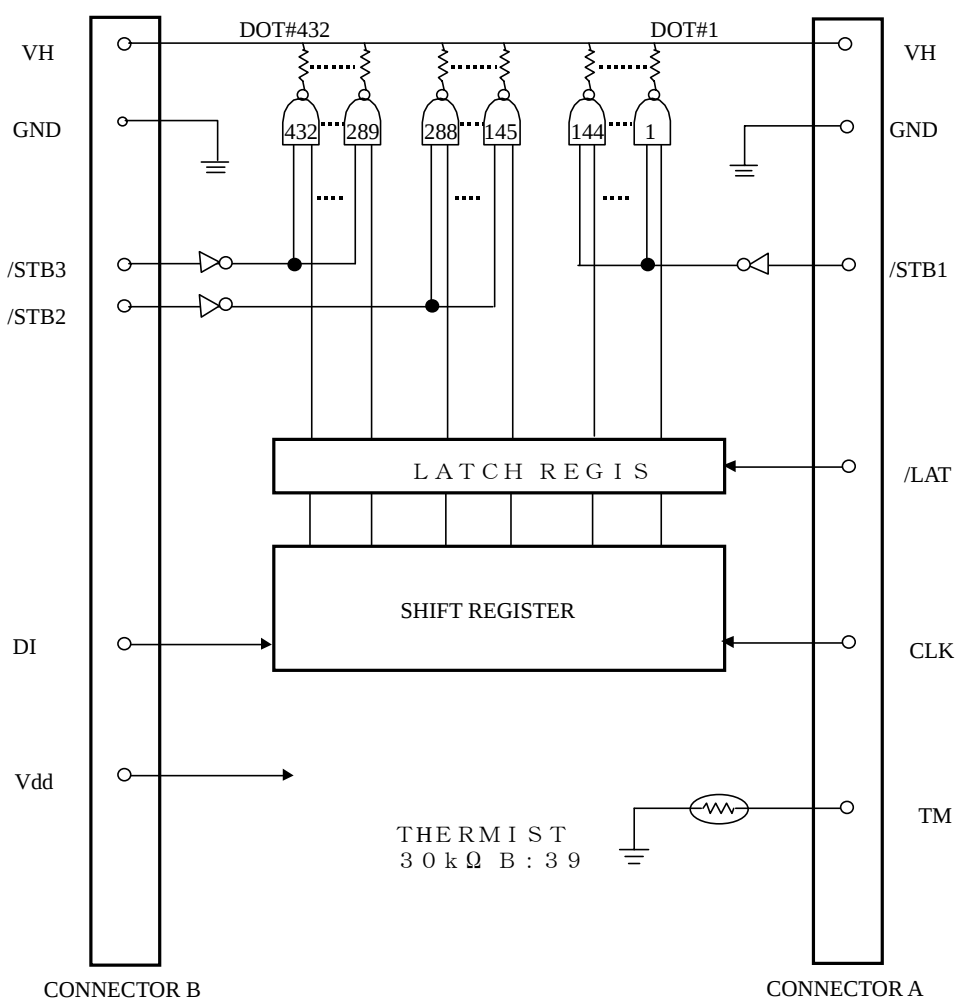
Utilizing the ideal element structure for each model (CF series: 100mm/s, CG series: 150mm/s) ensures perfect print quality and efficient energy consumption. In addition, the units feature a high-frequency clock, enabling advance control.

●Dimensions (Unit : mm)



Printheads

●Equivalent circuit



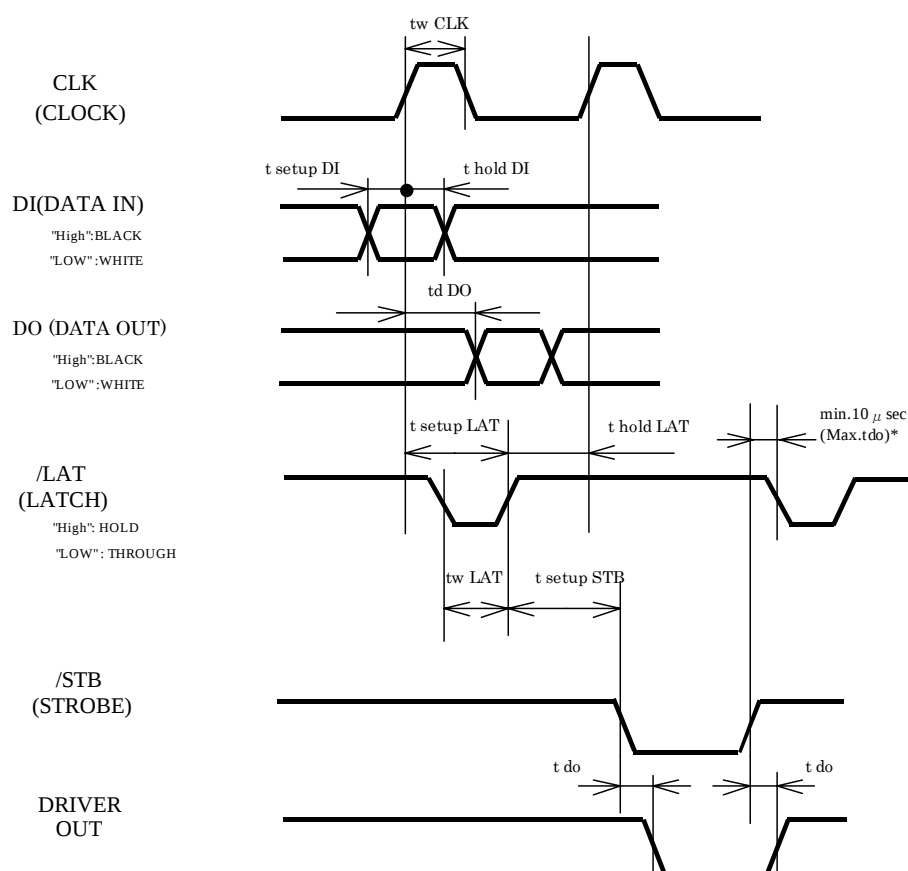
●Pin assignments

CONNECTOR B	
No.	Circuit
1	GND
2	GND
3	V _{DD}
4	$\overline{\text{STB3}}$
5	$\overline{\text{STB2}}$
6	DI
7	VH

CONNECTOR A	
No.	Circuit
1	VH
2	VH
3	CLK
4	$\overline{\text{LAT}}$
5	$\overline{\text{STB1}}$
6	TM
7	GND

Printheads

●Timing chart



*If delay time for Driver Out can not be secured enough, there is a possibility that VH would fluctuate greatly. Please design the circuit so that VH does not exceed peak voltage (V_p).

●Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	—	54	mm
Dot pitch	—	0.125	mm
Total dot number	—	432	dots
Average resistance value	R_{ave}	800	Ω
Applied voltage	V_H	24.0	V
Applied power	P_O	0.64	W/dot
Print cycle	SLT	1.25	ms
Pulse width	T_{ON}	0.28	ms
Maximum number of dots energized simultaneously	—	144	dots
Maximum clock frequency	—	8	MHz
Maximum roller diameter	—	$\phi 14.0$	mm
Running life / pulse life	—	$50/5 \times 10^7$	km/pulses
Operating temperature	—	0 to 50	$^{\circ}\text{C}$

Printheads

●Electrical characteristic curves

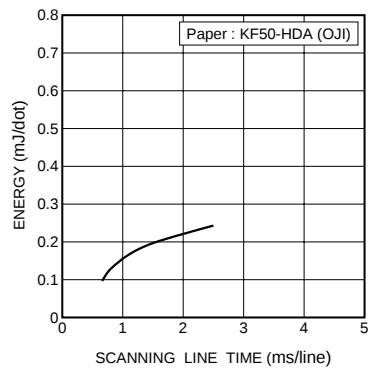


Fig.1 Adaptive speed chart

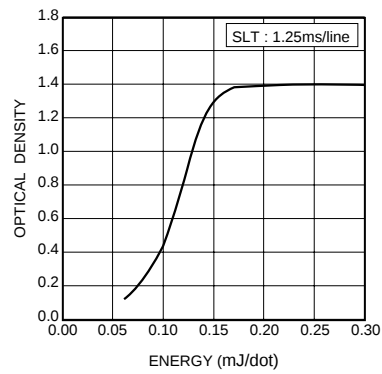


Fig.2 Representative density curve

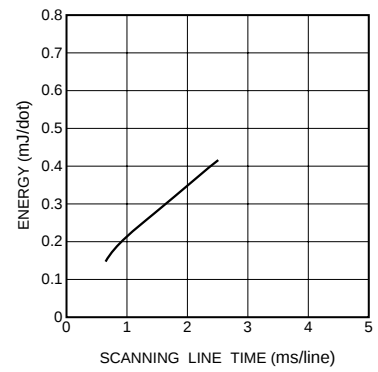


Fig.3 Maximum energy curve

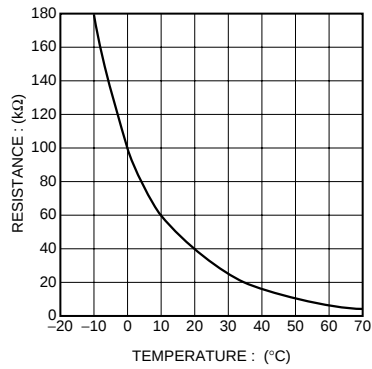


Fig.4 Thermistor curve

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