

Thick film thermal printhead (with thermal historical control) KD3002-DC72A

DC72 series has our own internally developed heat-history control function.

This product is best suited for applications which require 24 hours operation like factory production lines.

Applications

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

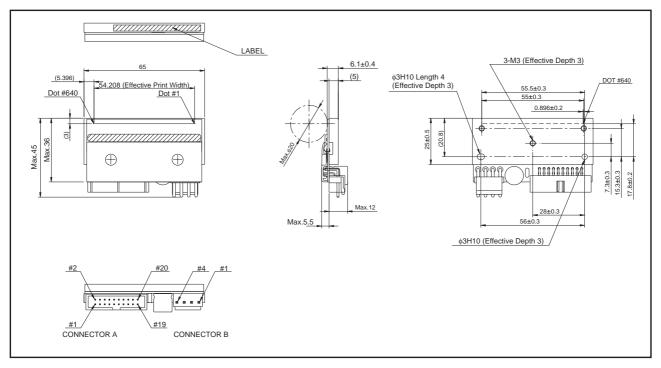
Features

1) Newly developed thick-film fast response thermal element and driver LSI with the function of thermal history control which is added the future history control are employed for this series. It is possible to print with super high speed of 10 inches/s or 250mm/s.

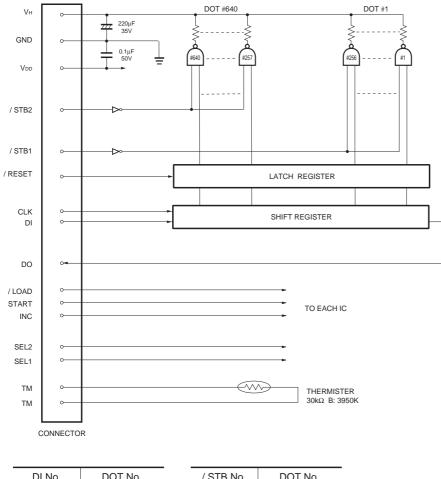
2) 150km life realized by attributing durable new protection film.

3) New partial glaze construction makes it compatible with the thermal transfer application.

•Dimensions (Unit : mm)



•Equivalent circuit



DI No.	DOT No.		/ STB No.	DOT No.	
DI	640 to 1		/ STB2	640 to 257	
			/ STB1	256 to 1	

Pin assignments

CONNECTOR A						
No.	Circuit	No. Circuit				
1	Vdd	11	/ RESET			
2	Vdd	12	START			
3	SEL2	13	DO			
4	SEL1	14	NC			
5	CLK (CP)	15	ТМ			
6	NC	16	ТМ			
7	DI	17	/ STB2			
8	NC	18	/ STB1			
9	INC	19	NC			
10	/ LOAD	20	NC			

	CO	NNECTOR B	
No.		Circuit	
	1	VH (COM)	
2		Vн (COM)	
	3	GND	
	4	GND	

Characteristics

Parameter		Typical	Unit
Effective printing width		54.208	mm
Dot pitch	-	0.0847	mm
Total dot number	-	640	dots
Average resistance value	Rave	1250	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.55	W/dot
Print cycle	SLT	0.41	ms
Maximum number of dots energized simultaneously	-	640	dots
Maximum clock frequency	-	8	MHz
Maximum roller diameter	-	φ20.0	mm
Running life / pulse life	-	150/(1×10 ⁸)	km/pulses
Operating temperature	-	5 to 45	°C

Data sheets

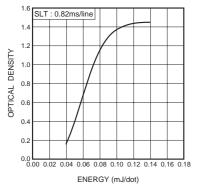


Fig.2 Representative density curve

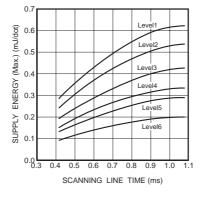


Fig.3 Maximum energy curve

Notes

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Appendix-Rev4.0