

Thick film thermal printhead (with thermal historical control)

KD2004-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.

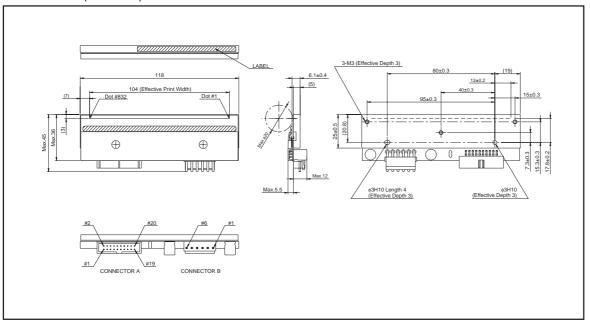
Applications

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

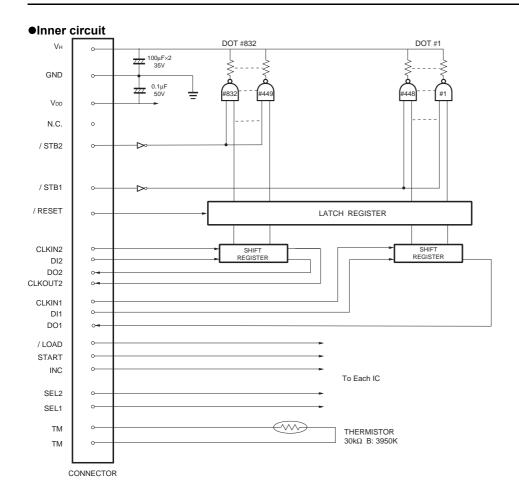
Features

- 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)



KD2004-DC72A **Data Sheet**



| DI No. | DOT No. | |
|--------|------------|--|
| DI2 | 832 to 449 | |
| DI1 | 448 to 1 | |

| / STB No. | DOT No. | | |
|-----------|------------|--|--|
| / STB2 | 832 to 449 | | |
| / STB1 | 448 to 1 | | |

| CLK No. | o. DOT No. | |
|---------|------------|--|
| CLKIN2 | 832 to 449 | |
| CLKIN1 | 448 to 1 | |

●Pin assignments CONNECTOR A

| CONNECTOR A | | | | |
|-------------|--------------------|--------|-------------|--|
| No. | Circuit | No. | No. Circuit | |
| 1 | V _{DD} 1 | | / RESET | |
| 2 | V _{DD} 12 | | START | |
| 3 | SEL2 13 D | | DO1 | |
| 4 | SEL1 | 14 DO2 | | |
| 5 | CLKIN2 (CP) | 15 | TM | |
| 6 | NC | 16 TM | | |
| 7 | DI2 | 17 | / STB2 | |
| 8 | DI1 | 18 | / STB1 | |
| 9 | INC | 19 | CLKOUT2 | |
| 10 | / LOAD | 20 | CLKIN1 | |
| | | | | |

| | CONNECTOR B | | |
|-----|-------------|----------|--|
| No. | | Circuit | |
| | 1 | Vн (COM) | |
| | 2 | Vн (COM) | |
| | 3 | Vн (COM) | |
| | 4 | GND | |
| | 5 | GND | |
| | 6 | GND | |

KD2004-DC72A Data Sheet

Characteristics

| Parameter | Symbol | Typical | Unit |
|---|--------|--------------------------|-----------|
| Effective printing width | _ | 104 | mm |
| Dot pitch | _ | 0.125 | mm |
| Total dot number | _ | 832 | dots |
| Average resistance value | Rave | 550 | Ω |
| Applied voltage | Vн | 24 | V |
| Applied power | Po | 0.77 | W/dot |
| Print cycle | SLT | 0.490 | ms |
| Maximum number of dots energized simultaneously | _ | 832 | 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 to 45 | °C |

●Data sheets

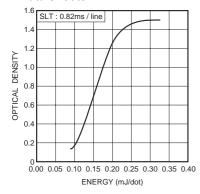


Fig.2 Representative density curve

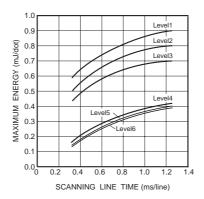


Fig.3 Maximum energy curve

Notes

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