

3R8

■ Descriptions

The 3R8 is a thermal print head with print voltage(24V) for Card Printer with media strait pass, which appropriates design for middle speed with D-Coating, high performance of anti-abrasion, especially for poor printing environment . It has 96 dots heater elements with 11.8 dots/mm by thick film process. It also includes drive Ics Which operate as 96 bits shift-registers, latches and switching transistors to drive heater elements.

■ Applications

- PVC/PET card Printers
- Rewritable Printers
- thick paper Printers

■ Characteristics

Item	Specification	Note
Effective print width	8.1 mm	
Number of heater elements	96 dots	
Heater resolution	11.8 dots/mm	300dpi
Heater elements pitch	0.0846 mm	
Heater resistance	$\bar{R} = 800 \Omega \pm 3\%$	
Logic power supply (VDD)	2.7 – 5.5 V	
Head print voltage	24 V	
Recommended Print Speed	200 mm/s	
Maximum Clock frequency	30 MHz	duty 50%
Platen diameter	Φ20 mm	
Running Life	150 Km	Printing duty 12.5%
Life of durable pulses	1x10 ⁸ pulses	
Specification for Thermistor	R ₂₅ =30KΩ±5%,B=3,950K±3%	
Operating temperature/humidity	-5° C ~ +50° C / 10 ~ 90% RH	Non-condensing
Number of heating dots simultaneously ON	96 dots	

■ Outline(unit:mm)

