

EM24N

■ Descriptions

The EM24N is a thermal print head with low print voltage(5V) for Receipt Printer, which applied new protective layer with high melting point and high durability, and applied advanced LSI/Assembly technology to achieved economic and compact design. It has 192 dots heater elements with 8 dots/mm by thick film process. It also includes drive Ics Which operate as 192 bits shift-registers, latches and switching transistors to drive heater elements.

■ Applications

- ECR / EFT – POS Printers
- Hand – hold Printers
- Mobile Printers

■ Characteristics

Item	Specification	Note
Effective print width	24 mm	
Number of heater elements	192 dots	
Heater resolution	8 dots/mm	203 dpi
Heater elements pitch	0.125 mm	
Heater resistance	$\bar{R} = 176 \Omega \pm 3\%$	
Logic power supply (VDD)	2.7 – 5.5 V	
Head print voltage	7.2 V	
Recommended Print Speed	25 – 100 mm/s	
Maximum Clock frequency	10 MHz	duty 50%
Platen diameter	MAXΦ8 mm	
Running Life	50 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	192 dots	

■ Outline(unit:mm)

