Featured Products











Compact high-performance head ideal for printing in small spaces

High-Speed Thermal Printheads for Date Code Printers

TH3001-2P1W00A/TH3002-2P1W00A

Achieves a class-leading*1 print speed of 1,000mm/s*2 (305dpi resolution)

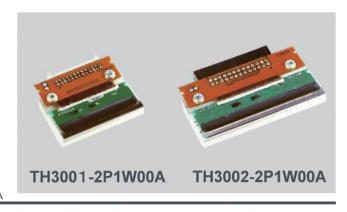
Ensures stable print quality even during continuous high-speed printing, while adopting a new structure minimizes resistive element deterioration

Contributes to shorter maintenance times by increasing the allowable angle Optimizing the shape of the printhead expands the allowable print angle by approx. 2x over conventional products

Adopts a smaller head size*3 while maintaining the characteristics of the TH3002-2P1W00A

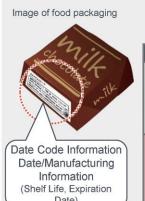
This allows for printing in small spaces without waste, reducing the running costs of ink ribbons

*1 ROHM Aug. 2020 study *2 When using a resin ink ribbon *3 TH3001-2P1W00A



Achieves class-leading print speeds*1 with a variety of print media

Expanding the allowable print angle contributes to shorter maintenance times



High resolution (305dpi) printing up to

ink ribbons due to their superior abrasion

feature excellent high-speed transferability.

1.000mm/sec can be achieved using resin-based

speed, high reliability wax-based ink ribbons that

resistance, and as much as 1,500mm/sec with high

Accuracy and Speed Comparison: Printing Date Code Information on Packaging Material When printing a QR code using resin-based ink ribbon

Print Speed (mm/sec)	300	600	1,000		
Conventional Product			Not printable		
Print Quality	100%	75%	0%		
ROHM TH3001-2P1W00A					
Print Quality	100%	100%	75%		

* QR Code is a registered trademark of Denso Wave Inc

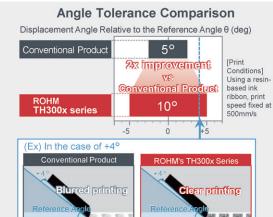
Enables high-density printing of date code information in a compact form factor

Reference Angle Paper Feed Direction Print Media Direction of Rotation Rubber Roller

Printing Operation

Stable quality is ensured even in the event of mechanical errors, age-based deterioration, and normal wear

(Cross Sectional Diagram)



Reduces downtime due to user maintenance

Improved corrosion resistance prolongs printhead life

Corrosion Resistance Comparison Accelerated Destruction Test by Dripping a Saline Solution on a Thermal Head [Test Conditions: Saline solution (saturated concentrated solution), VH=24V, VDD=5V applied1 Head Resistance Change Rate (%) Conventional Product Failed after only 900,000 pulses **ROHM TH300x Series** No failure even after 6 million pulses Improved 7x over standard products No. of Applied Pulses (Millions of Times)

Significantly improved corrosion

resistance ensures long-term stability

Drawbacks

Depending on the storage and usage environment of the printer, salt and moisture present in the air can penetrate the protective film of the printhead and cause corrosion and deterioration of the electrode material - including the heat elements.

Features of ROHM's New Thermal Printheads

The densely coated structure with excellent coverage inhibits the penetration of corrosive components. This achieves superior corrosion resistance compared with standard products.

Stable printheads enable use for long periods even in special environments such as food processing sites and logistics warehouses

Applications

- · Date code printers
- Barcode printers
- Package printers



Specifications

	Part No.	REsolution/ Density (dpi)	Print Width (mm)	No. of Dots	Ave. Resistance (Ω)	Max. Compatible Platen φ (mm)	Print Supply Voltage (VH)	Circuit Supply Voltage (V _{DD})	Connector Type	Heat Sink
Nev	TH3001-2P1W00A	305	31.987	384	570	50	24	4.75 to 5.25	Wire cable	YES
	TH3002-2P1W00A	305	53.312	640	570	50	24	4.75 to 5.25	Wire cable	YES



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