

TS5111

DDR5 Temperature Sensor with I²C or I³C Bus

Introduction

This document confirms there is not a LTOL reliability problem with the Renesas DDR5 Temperature Sensor product based on HCI evaluation according to the JEDEC standard.

- HCI reliability evaluation of DDR5 Temperature Sensor based on foundry's process qualification shows that there is good lifetime margin > 10 years at -40°C.

1. Ordering Information

| Part Number | Package | Carrier Type | Temperature Range |
|----------------|--|---------------|-------------------|
| TS5111-Z2AHR18 | 6-WLCSP 0.800 × 1.300 mm | Tape and Reel | -40°C to 125°C |
| TS5111-Z2AHR1 | 6-WLCSP 0.800 × 1.300 mm | Cut Reel | -40°C to 125°C |

2. Contact Information

Ryan Jehng

Email: ryan.jehng.kf@renesas.com

Phone: +1 408 284-8212

3. Revision History

| Revision | Date | Description |
|----------|-------------|------------------|
| 1.00 | Jun 9, 2026 | Initial release. |

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Corporate Headquarters

TOYOSU FORESIA, 3-2-24 Toyosu,
Koto-ku, Tokyo 135-0061, Japan
www.renesas.com

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