

## Product Change Notice (PCN)

**Subject:** Change in Polyimide Material

**Publication Date:** 12/8/2025

**Effective Date:** 3/18/2026

**Revision Description:**

Initial Release

**Description of Change:**

Renesas is changing the Polyimide material from BL-301 to LTC 9320-E19 for WLCSP-6L Spanishbay product (TS5111 AHR6) due to current supplier Asahi Kasei will discontinue supply of BL-301 by May'26.

Refer to below for more details.

Physical Properties	BL-301	LTC 9320-E19
Supplier	Asahi Kasei	Fujifilm
Cure Temp	230 °C	230 °C
CTE [ppm/°C]	50-60	53
Modulus [Gpa]	3.4	2.5
Elongation [%]	60	85
Tensile Strength [Mpa]	180	182
T <sub>g</sub> [°C]	220	234

**Affected Product List:** Refer to below.

TS5111-Z2AHR1	TS5111-Z2AHR18
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**Reason for Change:**

To ensure supply continuance in assembly.

**Impact on Fit, Form, Function, Quality & Reliability:**

The change will have no impact on the product form, fit, function, quality, reliability and environmental compliance of the products. Existing inventory can be used to fulfill orders.

**Product Identification:**

Traceability for the PI material change is available on request.

**Qualification Status:** Internal qualification completed successfully. Refer Appendix A

**Sample Availability Date:** Available upon request

**Material Declaration:** Available on request

**Note:**

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

**For additional information regarding this notice, please contact [idt-pcn@lm.renesas.com](mailto:idt-pcn@lm.renesas.com)**

**Appendix A - Qualification Results**

<b>Product : TS5111-Z2YAHRI</b>			
Fab Base:	AP865T001	Process Technology:	CM018G 1P5M
Package Types:	WLCSP 6L	Fab Location:	TSMC - Taiwan
Qual Plan/QCI:	P25-07-001	Assembly Location:	SFA - Korea

Test Description	Conditions	Sample Size	Results (rej/SS)	Comments
Temperature Cycling <sup>1</sup>	JESD22-A104, -55 °C to +125 °C, 1000 cycles	77	0/77, x 3 lots	Passed
Highly Accelerated Temperature and Humidity stress (Unbiased) <sup>1</sup>	JESD22-A118, +130 °C, 85% R.H., Unbiased, 96 hrs	77	0/77, x 3 lots	Passed
High Temperature Storage Life	JESD22-A103, +150 °C, 1000 hrs	77	0/77, x 3 lots	Passed

**Note:**

1. With preconditioning per JESD22-A113, MSL1 (260 °C)