

Product Change Notice (PCN)

Subject: Supplier addition of Cu-wire for LQFP products in RH850/F1, R1 and D1 Series

Publication Date: 11/12/2024

Effective Date: 6/1/2025

Revision Description: Initial Release

Description of Change:

Renesas will add a Cu-wire supplier for LQFP products in RH850/F1, R1 and D1 Series as follows:

Item	Before Change	After Change
Cu-wire: Supplier Addition	Supplier A	Supplier A and Supplier B

Applicable Assembly Factory

Renesas Electronics Corporation Nishiki Factory

Renesas Semiconductor (Suzhou) Co., Ltd.

Affected Product List:

Refer to "Product List" in "Appendix".

Reason for Change:

For stable product supply by adding Cu-wire suppliers.

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

The change will have no impact on the form, fit, function, quality and reliability of the devices.

Product Identification:

Our production history data can be queried by using the trace code of the product.

Qualification Status:

Refer to "Q100 Qualification Test Results" in "Appendix".

Sample Availability Date:

N/A

Device Material Declaration:

Please contact and request Renesas' sales to provide Device Material Declaration.

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the changes as approved.
2. If timely acknowledgement is provided by customers, then customers shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If customers fail 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 customers must provide Renesas with the last order quantity and purchase order.

For additional information regarding this notice, please contact your Renesas sales representative.

Appendix

Product List

RH850/F1,R1 and D1 series :

R7F7010063AFP-C#AA4	R7F7010324AFP-C#BA4	R7F7010513AFP-C#TA4	R7F7010574AFP-C#BA4
R7F7010063AFP-C#BA4	R7F7010324AFP-C#TA4	R7F7010514AFP-C#AA4	R7F7010574AFP-C#TA4
R7F7010063AFP-C#KA4	R7F7010333AFP-C#AA4	R7F7010514AFP-C#BA4	R7F7010713AFP-C#AA4
R7F7010064AFP-C#AA4	R7F7010333AFP-C#BA4	R7F7010514AFP-C#TA4	R7F7010713AFP-C#BA4
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R7F7010064AFP-C#KA4	R7F7010334AFP-C#AA4	R7F7010523AFP-C#AA8	R7F701A003AFP-C#AA4
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R7F7015484AFP-C#AA2	R7F7015423AFP-C#KA3	R7F7015634AFP-C#BA3	R7F7015873AFP-C#AA3
R7F7015873AFP-C#BA3	R7F7016203AFP-C#AA3	R7F701A554AFP-C#KA1	R7F7016864AFP-C#AA9
R7F7015873AFP-C#TA3	R7F7016203AFP-C#BA3	R7F701A564AFP-C#AA1	R7F7016864AFP-C#BA1
R7F7015874AFP-C#AA3	R7F7016203AFP-C#KA3	R7F701A564AFP-C#BA1	R7F7016864AFP-C#BA9
R7F7015874AFP-C#BA3	R7F7016204AFP-C#AA3	R7F701A564AFP-C#KA1	R7F7016864AFP-C#KA1
R7F7015874AFP-C#TA3	R7F7016204AFP-C#BA3	R7F701A574AFP-C#AA1	R7F7016864AFP-C#KA9
R7F7015973AFP-C#AA3	R7F7016204AFP-C#KA3	R7F701A574AFP-C#BA1	R7F7016873AFP-C#AA1
R7F7015973AFP-C#BA3	R7F7016213AFP-C#AA3	R7F701A574AFP-C#KA1	R7F7016873AFP-C#BA1
R7F7015973AFP-C#TA3	R7F7016213AFP-C#BA3	R7F701A584AFP-C#AA1	R7F7016873AFP-C#TA1
R7F7015974AFP-C#AA3	R7F7016213AFP-C#KA3	R7F701A584AFP-C#BA1	R7F7016874AFP-C#AA1

R7F7015974AFP-C#BA3	R7F7016214AFP-C#AA3	R7F701A584AFP-C#KA1	R7F7016874AFP-C#BA1
R7F7015974AFP-C#TA3	R7F7016214AFP-C#BA3	R7F701A594AFP-C#AA1	R7F7016874AFP-C#TA1
R7F7016023AFP-C#AA3	R7F7016214AFP-C#KA3	R7F701A594AFP-C#BA1	R7F7016883AFP-C#AA1
R7F7016023AFP-C#BA3	R7F7016223AFP-C#AA3	R7F701A594AFP-C#TA1	R7F7016883AFP-C#BA1
R7F7016023AFP-C#KA3	R7F7016223AFP-C#BA3	R7F701A604AFP-C#AA1	R7F7016883AFP-C#TA1
R7F7016024AFP-C#AA3	R7F7016223AFP-C#KA3	R7F701A604AFP-C#BA1	R7F7016884AFP-C#AA1
R7F7016024AFP-C#BA3	R7F7016224AFP-C#AA3	R7F701A604AFP-C#TA1	R7F7016884AFP-C#BA1
R7F7016024AFP-C#KA3	R7F7016224AFP-C#BA3	R7F701A793AFP-C#BA1	R7F7016884AFP-C#TA1
R7F7016033AFP-C#AA3	R7F7016224AFP-C#KA3	R7F701A793AFP-C#TA1	R7F7016893AFP-C#AA1
R7F7016033AFP-C#BA3	R7F7016233AFP-C#AA3	R7F701A803AFP-C#BA1	R7F7016893AFP-C#BA1
R7F7016033AFP-C#KA3	R7F7016233AFP-C#BA3	R7F701A803AFP-C#TA1	R7F7016893AFP-C#TA1
R7F7016034AFP-C#AA3	R7F7016233AFP-C#KA3	R7F701A813AFP-C#BA1	R7F7016894AFP-C#AA1
R7F7016034AFP-C#BA3	R7F7016234AFP-C#AA3	R7F701A813AFP-C#KA1	R7F7016894AFP-C#AA9
R7F7016034AFP-C#KA3	R7F7016234AFP-C#BA3	R7F701A823AFP-C#BA1	R7F7016894AFP-C#BA1
R7F7016103AFP-C#AA3	R7F7016234AFP-C#KA3	R7F701A823AFP-C#KA1	R7F7016894AFP-C#BA9
R7F7016103AFP-C#BA3	R7F7016343AFP-C#AA1	R7F701A833AFP-C#BA1	R7F7016894AFP-C#TA1
R7F7016103AFP-C#KA3	R7F7016343AFP-C#BA1	R7F701A833AFP-C#KA1	R7F7016894AFP-C#TA9
R7F7016104AFP-C#AA3	R7F7016343AFP-C#KA1	R7F701A843AFP-C#BA1	R7F7016903AFP-C#AA1
R7F7016104AFP-C#BA3	R7F7016363AFP-C#AA1	R7F701A843AFP-C#KA1	R7F7016903AFP-C#BA1
R7F7016104AFP-C#KA3	R7F7016363AFP-C#BA1	R7F7016843AFP-C#AA1	R7F7016903AFP-C#TA1
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R7F7016113AFP-C#BA3	R7F7016443AFP-C#AA1	R7F7016843AFP-C#KA1	R7F7016904AFP-C#AA9
R7F7016113AFP-C#KA3	R7F7016443AFP-C#BA1	R7F7016844AFP-C#AA1	R7F7016904AFP-C#BA1
R7F7016114AFP-C#AA3	R7F7016443AFP-C#KA1	R7F7016844AFP-C#AA9	R7F7016904AFP-C#BA9
R7F7016114AFP-C#AAT	R7F7016453AFP-C#AA1	R7F7016844AFP-C#BA1	R7F7016904AFP-C#TA1
R7F7016114AFP-C#BA3	R7F7016453AFP-C#BA1	R7F7016844AFP-C#BA9	R7F7016904AFP-C#TA9
R7F7016114AFP-C#BAT	R7F7016453AFP-C#KA1	R7F7016844AFP-C#KA1	R7F7016913AFP-C#AA1
R7F7016114AFP-C#KA3	R7F7016463AFP-C#AA1	R7F7016844AFP-C#KA9	R7F7016913AFP-C#BA1
R7F7016114AFP-C#KAT	R7F7016463AFP-C#BA1	R7F7016853AFP-C#AA1	R7F7016913AFP-C#TA1
R7F7016123AFP-C#AA3	R7F7016463AFP-C#KA1	R7F7016853AFP-C#BA1	R7F7016914AFP-C#AA1
R7F7016123AFP-C#BA3	R7F7016473AFP-C#AA1	R7F7016853AFP-C#KA1	R7F7016914AFP-C#BA1
R7F7016123AFP-C#KA3	R7F7016473AFP-C#BA1	R7F7016854AFP-C#AA1	R7F7016914AFP-C#TA1
R7F7016124AFP-C#AA3	R7F7016473AFP-C#KA1	R7F7016854AFP-C#BA1	R7F7016923AFP-C#AA1
R7F7016124AFP-C#BA3	R7F7016483AFP-C#AA1	R7F7016854AFP-C#KA1	R7F7016923AFP-C#AA9
R7F7016124AFP-C#KA3	R7F7016483AFP-C#BA1	R7F7016863AFP-C#AA1	R7F7016923AFP-C#BA1
R7F7016133AFP-C#AA3	R7F7016483AFP-C#TA1	R7F7016863AFP-C#AA9	R7F7016923AFP-C#BA9
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R7F7016133AFP-C#KA3	R7F7016493AFP-C#BA1	R7F7016863AFP-C#BA9	R7F7016923AFP-C#TA9
R7F7016134AFP-C#AA3	R7F7016493AFP-C#TA1	R7F7016863AFP-C#KA1	R7F7016924AFP-C#AA1
R7F7016134AFP-C#BA3	R7F701A554AFP-C#AA1	R7F7016863AFP-C#KA9	R7F7016924AFP-C#AA9
R7F7016134AFP-C#KA3	R7F701A554AFP-C#BA1	R7F7016864AFP-C#AA1	R7F7016924AFP-C#BA1
R7F7016924AFP-C#BA9	R7F7016953AFP-C#AA1	R7F701A673AFP-C#BA1	R7F7017083AFP-C#AA1
R7F7016924AFP-C#TA1	R7F7016953AFP-C#AA9	R7F701A673AFP-C#TA1	R7F7017083AFP-C#BA1
R7F7016924AFP-C#TA9	R7F7016953AFP-C#BA1	R7F701A683AFP-C#BA1	R7F7017083AFP-C#TA1
R7F7016933AFP-C#AA1	R7F7016953AFP-C#BA9	R7F701A683AFP-C#TA1	R7F7017093AFP-C#AA1
R7F7016933AFP-C#AA9	R7F7016953AFP-C#KA1	R7F701A693AFP-C#BA1	R7F7017093AFP-C#BA1
R7F7016933AFP-C#BA1	R7F7016953AFP-C#KA9	R7F701A693AFP-C#TA1	R7F7017093AFP-C#TA1
R7F7016933AFP-C#BA9	R7F7016954AFP-C#AA1	R7F701A703AFP-C#BA1	R7F7017603AFP-C#BA1
R7F7016933AFP-C#KA1	R7F7016954AFP-C#AA9	R7F701A703AFP-C#TA1	R7F7017603AFP-C#KA1
R7F7016933AFP-C#KA9	R7F7016954AFP-C#BA1	R7F701A713AFP-C#BA1	R7F7017623AFP-C#BA1
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R7F7016943AFP-C#AA1	R7F701A643AFP-C#BA1	R7F701A733AFP-C#BA1	R7F701A763AFP-C#BA1
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R7F7016943AFP-C#KA1	R7F701A653AFP-C#BA1	R7F701A743AFP-C#BA1	R7F701A773AFP-C#BA1
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R7F701400EA23AFB-C#KA1	R7F701402EA55AFB-C#KA1	R7F701420EAFB-C#AA1	R7F701423EAFB-C#TA9
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R7F701400EA30AFB-C#KA1	R7F701402EAFB-C#AA1	R7F701420EAFB-C#KA1	R7F701423E***AFB-C#TA9
R7F701400EA49AFB-C#KA1	R7F701402EAFB-C#BA1	R7F701420EAFB-C#KA9	R7F701434EAFB-C#AA1
R7F701400EAFB-C#AA1	R7F701402EAFB-C#KA1	R7F701420E***AFB-C#KA1	R7F701434EAFB-C#BA1
R7F701400EAFB-C#BA1	R7F701402E***AFB-C#KA1	R7F701420E***AFB-C#KA9	R7F701434EAFB-C#KA1
R7F701400EAFB-C#KA1	R7F701403EAFB-C#AA1	R7F701421EAFB-C#AA1	R7F701434E***AFB-C#KA1
R7F701400E***AFB-C#KA1	R7F701403EAFB-C#BA1	R7F701421EAFB-C#BA1	R7F701442EAFB-C#AA0
R7F701401EA00AFB-C#KA1	R7F701403EAFB-C#TA1	R7F701421EAFB-C#KA1	R7F701442EAFB-C#BA0
R7F701401EA01AFB-C#KA1	R7F701403E***AFB-C#TA1	R7F701421EAFB-C#KA9	R7F701442EAFB-C#TA0
R7F701401EA10AFB-C#KA1	R7F701414EA03AFB-C#KA1	R7F701421E***AFB-C#KA1	R7F701442E***AFB-C#TA0
R7F701401EA24AFB-C#KA1	R7F701414EA04AFB-C#KA1	R7F701421E***AFB-C#KA9	R7F701462EAFB-C#AA0
R7F701401EA31AFB-C#KA1	R7F701414EA05AFB-C#KA1	R7F701422EAFB-C#AA1	R7F701462EAFB-C#BA0
R7F701401EA46AFB-C#KA1	R7F701414EA13AFB-C#KA1	R7F701422EAFB-C#BA1	R7F701462EAFB-C#TA0
R7F701401EAFB-C#AA1	R7F701414EA15AFB-C#KA1	R7F701422EAFB-C#KA1	R7F701462EAFB-C#TA9
R7F701401EAFB-C#BA1	R7F701414EA16AFB-C#KA1	R7F701422EAFB-C#KA9	R7F701462E***AFB-C#TA0
R7F701401EAFB-C#KA1	R7F701414EA54AFB-C#KA1	R7F701422E***AFB-C#KA1	R7F701462E***AFB-C#TA9
R7F701401E***AFB-C#KA1	R7F701414EAFB-C#AA1	R7F701422E***AFB-C#KA9	
R7F701402EA02AFB-C#KA1	R7F701414EAFB-C#BA1	R7F701423EAFB-C#AA1	

*** means ROM code

Q100 Qualification Test Results

AEC-Q100-REV-H

[Note : Qualification tests were performed using a representative product with the same wafer process and the same package structure, and also using generic data.]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP A – ACCELERATED ENVIRONMENT STRESS TESTS

PC	A1	JESD22 A113 J-STD-020	Preconditioning: (Test @ Rm) SMD only; Moisture Preconditioning for THB/HAST, AC/UHST, TC, &PTC ; Peak Reflow Temp=260°C	Min.MSL=3			MSL=3	-
THB or HAST	A2	JESD22 A101	Temperature Humidity Bias: (Test @ Rm/Hot) Ta=85°C, RH=85%, 1000hrs	3	77	231	0 of 231	-
AC or UHST or TH	A3	JESD22 A118	Unbiased Highly Accelerated Stree Test: (Test @ Rm) Ta=110°C, 85% RH, 264h	3	77	231	0 of 231	-
TC	A4	JESD22 A104	Temperature Cycle: (Test @ Hot) Ta=-65°C to 150°C, 500cyc or Ta=-55°C to 150°C, 1000cyc	3	77	231	0 of 231 0 Fails after TC (WBP)	-
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) Ta=-40°C to 125°C, 1000cyc	1	45	45	0 of 45	* Applicable products only
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=150°C, 1000hrs or Ta=175°C, 500hrs	1	45	45	0 of 45	-

TEST GROUP B – ACCELERATED LIFETIME SIMULATION TESTS

HTOL	B1	JESD22 A108	High Temp Operating Life: (Test @ Rm/Cold/Hot) Ta=150°C, 1000hrs	3	77	231	0 of 231	-
ELFR	B2	AEC-Q100-008	Early Life Failure Rate: (Test @ Rm/Hot) Ta=125°C, 48hrs	3	800	2400	0 of 2400	-
EDR	B3	AEC-Q100-005	NVM Endurance & Data Retention Test: (Test @ Rm/Hot)	For HTOL	3	77	231	0 of 231
				For HTSL	1	45	45	0 of 45

TEST GROUP C – PACKAGE ASSEMBLY INTEGRITY TESTS

WBS	C1	AEC-Q100-001 AEC-Q003	Wire Bond Shear Test: (Cpk > 1.67)	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
WBP	C2	Mil-STD-883 Method 2011 AEC-Q003	Wire Bond Pull: (Cpk > 1.67); Each bonder used	30 bonds	5 parts Min.	30 bonds	0 of 30bonds	Cpk>1.67
SD	C3	JESD22 B102 JSTD-002D	Solderability: (>95% coverage) 8 hr steam aging prior to testing	1	15	15	0 of 15	-
PD	C4	JESD22 B100, JESD22 B108 AEC-Q003	Physical Dimensions: (Cpk > 1.67)	3	10	30	0 of 30	Cpk>1.67
SBS	C5	AEC-Q100-010 AEC-Q003	Solder Ball Shear: (Cpk > 1.67); 5 balls from min. of 10 devices	-	-	-	-	N/A
LI	C6	JESD22 B105	Lead Integrity: (No lead cracking or breaking); Through-hole only; 10 leads from each of 5 devices	-	-	-	-	N/A

TEST GROUP D – DIE FABRICATION RELIABILITY TESTS

EM	D1	JESD61	Electromigration:	-	-	-	Pass	Confirmed by process TEG
TDDDB	D2	JESD35	Time Dependant Dielectric Breakdown:	-	-	-	Pass	Confirmed by process TEG
HCI	D3	JESD60 & 28	Hot Carrier Injection:	-	-	-	Pass	Confirmed by process TEG
NBTI	D4	JESD90	Negative Bias Temperature Instability:	-	-	-	Pass	Confirmed by process TEG
SM	D5	JESD61,87 & 202	Stress Migration:	-	-	-	Pass	Confirmed by process TEG

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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TEST GROUP E- ELECTRICAL VERIFICATION

TEST	E1	User/Supplier Specification	Pre and Post Stress Electrical Test:	All	All	All	0 of All	-
HBM	E2	AEC-Q100-002	Electrostatic Discharge, Human Body Model: (Test @ Rm/Hot); (2KV HBM / Class 2 or better)	1	3	3	0 of 3 ESD Level= HBM:2	HBM>2KV
CDM	E3	AEC-Q100-011	Electrostatic Discharge, Charged Device Model: (Test @ Rm/Hot); (750V corner leads, 500V all other leads / Class C4B or better)	1	3	3	0 of 3 ESD Level= CDM:C4B	Corner leads: 750V Pass All other leads:500V Pass
LU	E4	AEC-Q100-004	Latch-Up: (Test @ Rm/Hot)	1	6	6	0 of 6	-
ED	E5	AEC-Q100-009 AEC-Q003	Electrical Distributions: (Test @ Rm/Hot/Cold) (where applicable, Cpk>1.67)	3	30	90	Cpk>1.67	-
FG	E6	AEC-Q100-007	Fault Grading:	-	-	-	>98%	-
CHAR	E7	AEC-Q003	Characterization: (Test @ Rm/Hot/Cold)	-	-	-	Pass	According to Renesas standard procedure
EMC	E9	SAE J1752/3	Electromagnetic Compatibility (Radiated Emissions)	1	1	1	0 of 1	-
SC	E10	AEC Q100-012	Short Circuit Characterization	-	-	-	-	N/A
SER	E11	JESD89-1 JESD89-2 JESD89-3	Soft Error Rate	1	3	3	Pass	* Applicable product only
LF	E12	AEC-Q005	Lead (Pb) Free: (see AEC-Q005)	-	-	-	Pass	Solderability: See SD (C3) result. Solder heat resistance: N/A (Wave Solder is Not recommended.) Whisker: Performed on product TEG with test method based on JESD201.

TEST GROUP F – DEFECT SCREENING TESTS

PAT	F1	AEC-Q001	Process Average Testing: (see AEC-Q001)	All	All	All	Reject units outside PAT limits	Apply to mass production according to Renesas standard procedure
SBA	F2	AEC-Q002	Statistical Bin/Yield Analysis: (see AEC-Q002)	All	All	All	Reject units outside criteria	Apply to mass production according to Renesas standard procedure

TEST GROUP G – CAVITY PACKAGE INTEGRITY TESTS (for Ceramic Package testing only)

MS	G1	JESD22 B104	Mechanical Shock: (Test @ Rm)	-	-	-	-	N/A
VFV	G2	JESD22 B103	Variable Frequency Vibration: (Test @ Rm)	-	-	-	-	N/A
CA	G3	MIL-STD-883 Method 2001	Constant Acceleration: (Test @ Rm)	-	-	-	-	N/A
GFL	G4	MIL-STD-883 Method 1014	Gross and Fine Leak:	-	-	-	-	N/A
DROP	G5	-----	Drop Test: (Test @ Rm) MEMS cavity parts only. Drop part on each of 6 axes once from a height of 1.2m onto a concrete surface.	-	-	-	-	N/A
LT	G6	MIL-STD-883 Method 2004	Lid Torque:	-	-	-	-	N/A
DS	G7	MIL-STD-883 Method 2019	Die Shear:	-	-	-	-	N/A
IWV	G8	MIL-STD-883 Method 1018	Internal Water Vapor:	-	-	-	-	N/A