Product Change Notice

(PCN Tracking Number: EE-QR-211130-18)

Version: 1

Customer:	All	
Renesas Product Type:	RH850/F1x and R1x Series	
Description of Change:	Renesas has implemented the standardization of assembly materials such as bonding-wire change to Cu-wire and the revision of Core-Voltage-Monitor circuits for **Naka** Wafer Production (RSC, Nishiki / Assembly) products to realize stable supply. The change of bonding wire to Cu-wire was already introduced via PCN no. EE-QR-200514-xx for **TSMC** Wafer Production.	
Reason for Change:	For stable supply of products and immunity improvement to power-supply noise.	
Identification:	Via Product Name (additional "-C"), Device Mark & Packing Label Please refer to page 2 & 3 for more details.	
Schedules:	Sample Order Sample submission: Qualification results: Requested approval Implementation of change	Until March 2022 latest From b/o Feb.2022 onwards (upon request) Available (please refer to page 4-9) Until May 2022 From Apr. 2022 onwards possible
Anticipated Impact:	Fit, Form & Function: Quality & Reliability:	No impact No impact
Doc. No.:	EEQC-PCN-CR-21-2069	
Internal Reference:	LLWEB-20123464	

In case of any question, please contact:

INITIATOR	TITLE	E-mail	PHONE No.
Farhad Banihashemi	Staff Engineer	farhad.banihashemi@renesas.com	+49-211-6503-1844

Düsseldorf, 06.12.2021

Customer Response:

(please fill in and return by e-mail, fax or mail)

☐ acknowledge
☐ acceptable
☐ inacceptable (pls. comment)
☐ not applicable

Company: _____

Name & Position: _____

Phone / Fax No.: _____

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

Comments:

_____ (Signature)

Details of Change:

ASSY sites	Change contensts (w/ : ○、 w/o : —)					
	Chip structure		Mold resin	Bonding wire		Die-attach materials
	Pad-opening size 50→55um	CVM-circuit revision	Mold resin materials Au→Cu wire	wire material Au→Cu	Wire Diameters 18→20μm	
RSC	○	○(Only 48,64,80,100pin)	○	○	○	○(Only 48,64pin)
Nishiki	○	○(Only 64,80,100pin)	○	○	○	○(Only 80,100,144pin)

Change items due to Cu bonding wire:

Wafer Process: Naka
Assy Process: RSC (Renesas Semiconductor (Suzhou) Co. Ltd.) and Nishiki factory
Target Products: RH850/F1 and R1 series

e.g.
Current P/N: R7F7010133AFP#BA4 New P/N: R7F7010133AFP-C#BA4
Current P/N: R7F7010184AFP#KA4 New P/N: R7F7010184AFP-C#KA4
Current P/N: R7F7010323AFP#KA4 New P/N: R7F7010323AFP-C#KA4

No	Item	New (after change)	Current
1	Change of the bonding wire materials	Cu wire, φ20um	Au wire, φ18um
2	Change of the mold resin	Mold resin for Cu wire	Mold resin for Au wire
3	Change of the pad opening size	55um	50um
4	Change of the Die-attach material	Renesas standard material (RH850 common material)	Conventional material

Change items due to Cu bonding wire:

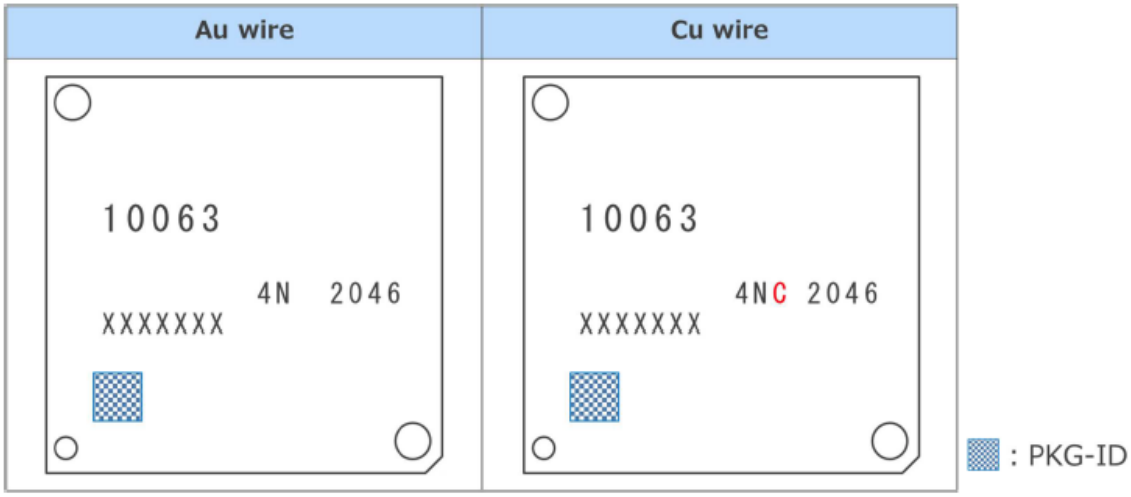
Photomasks have been revised to apply the same circuit as TSMC.

Product Identification:

Product identification through Mark printing on each PKG

Mark specifications : R7F7010063AFP-C#BA4 F1L-2M, 144pin (RSC ASSY)

In the case of laser mark for Cu-wire products, "C" is added in a part of mark (Red characters).



Product identification through each Label printing

Label example : R7F7010063AFP-C#BA4 F1L-2M, 144pin (RSC ASSY)

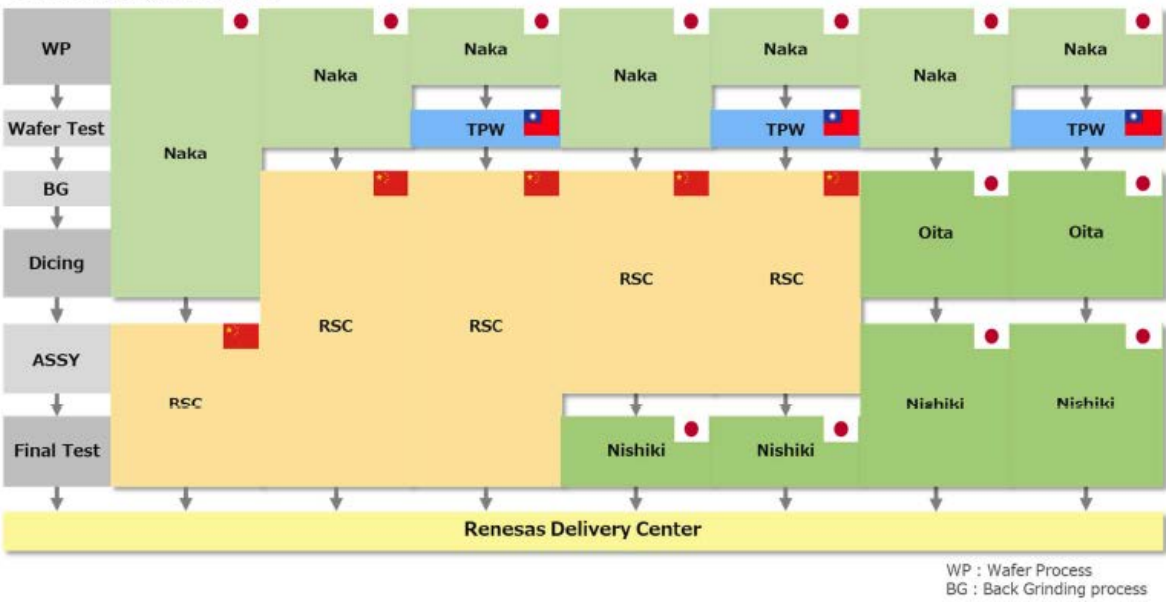
Before change : Au-wire Label image

After change : Cu-wire Label image

Red characters are different from Au-wire products.

Production Flow:

RH850/F1L, R1L series



WP : Wafer Process
BG : Back Grinding process

*Alternative-BI has been applied to all production flows.

Qualification Test Results:

Naka / RSC:

[Note : Basically qualification tests were performed using a representative product with the same wafer process and the same package structure .]

Test	#	Reference	Test Conditions		Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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		3	77	231	0 of 231 0 Fails after TC (WBP)	-
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) -		-	-	-	-	N/A
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=150°C, 1000hrs		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	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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
TDDB	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)
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	-
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	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A =Not Applicable)
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

Product List (Naka/RSC):

[F1L series]

R7F7010033AFP-C	R7F7010524AFP-C
R7F7010034AFP-C	R7F7010533AFP-C
R7F7010063AFP-C	R7F7010534AFP-C
R7F7010064AFP-C	R7F7010543AFP-C
R7F7010073AFP-C	R7F7010544AFP-C
R7F7010074AFP-C	R7F7010553AFP-C
R7F7010143AFP-C	R7F7010554AFP-C
R7F7010144AFP-C	R7F7010563AFP-C
R7F7010153AFP-C	R7F7010564AFP-C
R7F7010154AFP-C	R7F7010573AFP-C
R7F7010193AFP-C	R7F7010574AFP-C
R7F7010194AFP-C	R7F701A003AFP-C
R7F7010203AFP-C	R7F701A004AFP-C
R7F7010204AFP-C	R7F701A013AFP-C
R7F7010243AFP-C	R7F701A014AFP-C
R7F7010244AFP-C	R7F7010023AFP-C
R7F7010253AFP-C	R7F7010024AFP-C
R7F7010254AFP-C	R7F7010083AFP-C
R7F7010263AFP-C	R7F7010084AFP-C
R7F7010264AFP-C	R7F7010093AFP-C
R7F7010273AFP-C	R7F7010094AFP-C
R7F7010274AFP-C	R7F7010103AFP-C
R7F7010283AFP-C	R7F7010104AFP-C
R7F7010284AFP-C	R7F7010113AFP-C
R7F7010293AFP-C	R7F7010114AFP-C
R7F7010294AFP-C	R7F7010123AFP-C
R7F7010303AFP-C	R7F7010124AFP-C
R7F7010304AFP-C	R7F7010133AFP-C
R7F7010323AFP-C	R7F7010134AFP-C
R7F7010324AFP-C	R7F7010163AFP-C
R7F7010333AFP-C	R7F7010164AFP-C
R7F7010334AFP-C	R7F7010173AFP-C
R7F7010343AFP-C	R7F7010174AFP-C
R7F7010344AFP-C	R7F7010183AFP-C
R7F7010403AFP-C	R7F7010184AFP-C
R7F7010404AFP-C	R7F7010213AFP-C
R7F7010413AFP-C	R7F7010214AFP-C
R7F7010414AFP-C	R7F7010223AFP-C
R7F7010423AFP-C	R7F7010224AFP-C
R7F7010424AFP-C	R7F7010233AFP-C
R7F7010433AFP-C	R7F7010234AFP-C
R7F7010434AFP-C	R7F701A313AFP-C
R7F7010443AFP-C	R7F701A314AFP-C
R7F7010444AFP-C	R7F701A323AFP-C
R7F7010453AFP-C	R7F701A324AFP-C
R7F7010454AFP-C	R7F701A333AFP-C
R7F7010463AFP-C	R7F701A334AFP-C
R7F7010464AFP-C	R7F701A363AFP-C
R7F7010473AFP-C	R7F701A364AFP-C
R7F7010474AFP-C	R7F701A373AFP-C
R7F7010483AFP-C	R7F701A374AFP-C
R7F7010484AFP-C	R7F701A383AFP-C
R7F7010493AFP-C	R7F701A384AFP-C
R7F7010494AFP-C	R7F701A393AFP-C
R7F7010503AFP-C	R7F701A394AFP-C
R7F7010504AFP-C	R7F701A403AFP-C
R7F7010513AFP-C	R7F701A404AFP-C
R7F7010514AFP-C	R7F701A413AFP-C
R7F7010523AFP-C	R7F701A414AFP-C

[R1L series]

R7F7010643AFP-C
R7F7010693AFP-C
R7F7010713AFP-C
R7F7010603AFP-C
R7F7010623AFP-C
R7F7010653AFP-C
R7F7010673AFP-C
R7F701A023AFP-C
R7F701A033AFP-C
R7F701A083AFP-C
R7F701A223AFP-C

Naka / Nishiki:

[Note : Basically qualification tests were performed using a representative product with the same wafer process and the same package structure .]

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A –Not Applicable)
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	3	77	231	0 of 231 0 Fails after TC (WBP)	-
PTC	A5	JESD22 A105	Power Temperature Cycle: (Test @ Rm/Hot) -	-	-	-	-	N/A
HTSL	A6	JESD22 A103	High Temperature Storage Life: (Test @ Rm/Hot) Ta=150°C, 1000hrs	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	-
			NVM Endurance & Data Retention Test: (Test @ Rm/Hot) – For HTSL	1	45	45	0 of 45	-

Test	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A –Not Applicable)
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
TDDB	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)
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	-
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	#	Reference	Test Conditions	Lots	S.S.	Total	Results (Fail of Total)	Comments: (N/A –Not Applicable)
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

Product List (Naka/Nishiki):

[F1L series]

R7F7010033AFP-C	R7F7010484AFP-C
R7F7010034AFP-C	R7F7010493AFP-C
R7F7010063AFP-C	R7F7010494AFP-C
R7F7010064AFP-C	R7F7010543AFP-C
R7F7010143AFP-C	R7F7010544AFP-C
R7F7010144AFP-C	R7F7010553AFP-C
R7F7010153AFP-C	R7F7010554AFP-C
R7F7010154AFP-C	R7F701A003AFP-C
R7F7010193AFP-C	R7F701A004AFP-C
R7F7010194AFP-C	R7F7010023AFP-C
R7F7010203AFP-C	R7F7010024AFP-C
R7F7010204AFP-C	R7F7010113AFP-C
R7F7010243AFP-C	R7F7010114AFP-C
R7F7010244AFP-C	R7F7010123AFP-C
R7F7010253AFP-C	R7F7010124AFP-C
R7F7010254AFP-C	R7F7010133AFP-C
R7F7010263AFP-C	R7F7010134AFP-C
R7F7010264AFP-C	R7F7010163AFP-C
R7F7010273AFP-C	R7F7010164AFP-C
R7F7010274AFP-C	R7F7010173AFP-C
R7F7010283AFP-C	R7F7010174AFP-C
R7F7010284AFP-C	R7F7010183AFP-C
R7F7010293AFP-C	R7F7010184AFP-C
R7F7010294AFP-C	R7F7010213AFP-C
R7F7010303AFP-C	R7F7010214AFP-C
R7F7010304AFP-C	R7F7010223AFP-C
R7F7010403AFP-C	R7F7010224AFP-C
R7F7010404AFP-C	R7F7010233AFP-C
R7F7010413AFP-C	R7F7010234AFP-C
R7F7010414AFP-C	R7F701A323AFP-C
R7F7010423AFP-C	R7F701A324AFP-C
R7F7010424AFP-C	R7F701A333AFP-C
R7F7010433AFP-C	R7F701A334AFP-C
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R7F7010444AFP-C	R7F701A373AFP-C
R7F7010453AFP-C	R7F701A374AFP-C
R7F7010454AFP-C	R7F701A383AFP-C
R7F7010463AFP-C	R7F701A384AFP-C
R7F7010464AFP-C	R7F701A403AFP-C
R7F7010473AFP-C	R7F701A404AFP-C
R7F7010474AFP-C	R7F701A413AFP-C
R7F7010483AFP-C	R7F701A414AFP-C

[R1L series]

R7F7010643AFP-C
R7F7010693AFP-C
R7F7010713AFP-C
R7F7010603AFP-C
R7F7010623AFP-C
R7F7010653AFP-C
R7F7010673AFP-C
R7F701A023AFP-C
R7F701A033AFP-C
R7F701A083AFP-C
R7F701A223AFP-C

Current P/N	After Change P/N	Series
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R7F7010033AFP#KA2	R7F7010033AFP-C#KA2	F1L series
R7F7010034AFP#BA2	R7F7010034AFP-C#BA2	F1L series
R7F7010034AFP#KA2	R7F7010034AFP-C#KA2	F1L series
R7F7010063AFP#BA4	R7F7010063AFP-C#BA4	F1L series
R7F7010063AFP#KA4	R7F7010063AFP-C#KA4	F1L series
R7F7010064AFP#BA4	R7F7010064AFP-C#BA4	F1L series
R7F7010064AFP#KA4	R7F7010064AFP-C#KA4	F1L series
R7F7010073AFP#BA4	R7F7010073AFP-C#BA4	F1L series
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R7F701A414AFP#KA4	R7F701A414AFP-C#KA4	F1L series
R7F7010643AFP#BA2	R7F7010643AFP-C#BA2	R1L series
R7F7010643AFP#KA2	R7F7010643AFP-C#KA2	R1L series
R7F7010693AFP#BA2	R7F7010693AFP-C#BA2	R1L series
R7F7010693AFP#KA2	R7F7010693AFP-C#KA2	R1L series
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R7F7010713AFP#KA4	R7F7010713AFP-C#KA4	R1L series
R7F7010603AFP#BA4	R7F7010603AFP-C#BA4	R1L series
R7F7010603AFP#KA4	R7F7010603AFP-C#KA4	R1L series
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R7F7010653AFP#KA4	R7F7010653AFP-C#KA4	R1L series
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R7F701A023AFP#BA8	R7F701A023AFP-C#BA8	R1L series
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R7F701A083AFP#KA4	R7F701A083AFP-C#KA4	R1L series
R7F701A223AFP#BA4	R7F701A223AFP-C#BA4	R1L series