

Report No. MCR-22-0311 April 26,2022

RENESAS SEMICONDUCTOR RELIABILITY REPORT

- GROUP : RX631
- DEVICE : R5F5631XXX
- APPLICATION : Consumer / Industry

Quality Assurance Div. Renesas Electronics Corporation



MCR-22-0311

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(Rev.5.0-2 October 2020)



Table. Reliability test results (QFP)

Test Items	Reference	Test Conditions	Results Failure/Size	Comment
High Temperature Operating Life (HTOL)	JESD22-A108	Ta=125 ℃, Vccmax, 1000 hrs	0/22	
High Temperature Storage Life (HTSL)	JESD22-A103	Ta=150 ℃, 1000 hrs	0/22	
Temperature Humidity bias (THB) (*1)	JESD22-A101	Ta=85 ℃, RH=85 %, Vccmax, 1000 hrs	0/22	
Temperature Cycling (TC) (*1)	JESD22-A104	Ta=-65 ℃ to 150 ℃ , 300 cycles	0/22	
Latch-Up (LU)	JESD78	Pulse Current Injection, I=+/-150 mA	0/3	
Electrostatic discharge (ESD-HBM)	JS-001	1.5 kΩ, 100 pF, +/-2000 V, 1 time	0/3	Class: 2
Electrostatic discharge (ESD-CDM)	JEITA ED-4701/302	+/-1000V,1time	0/3	Class: Equivalent to C2b
Solderability (SD)	J-STD-002	245 ℃, 5 s, Solder coverage ≥95 %	0/5	
Resistance to Soldering Heat (PC)	JESD22-A113, J-STD-020	MSL3(Moisture Sensitivity Level 3)	0/22	

*1) With preconditioning per JESD22-A113, MSL 3 •It is tested to confirm that all the samples are satisfied with an individual product specification.

Note :

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



Table. Reliability test results (BGA)

Test Items	Reference	Test Conditions	Results Failure/Size	Comment
High Temperature Operating Life (HTOL)	JESD22-A108	Ta=125 ℃, Vccmax, 1000 hrs	0/22	
High Temperature Storage Life (HTSL)	JESD22-A103	Ta=150 ℃, 1000 hrs	0/22	
Temperature Humidity bias (THB) (*1)	JESD22-A101	Ta=85 ℃, RH=85 %, Vccmax, 1000 hrs	0/22	
Temperature Cycling (TC) (*1)	JESD22-A104	Ta=-55 $^\circ$ to 125 $^\circ$, 500 cycles	0/22	
Latch-Up (LU)	JESD78	Pulse Current Injection, I=+/-150 mA	0/3	
Electrostatic discharge (ESD-HBM)	JS-001	1.5 kΩ, 100 pF, +/-2000 V, 1 time	0/3	Class: 2
Electrostatic discharge (ESD-CDM)	JEITA ED-4701/302	+/-1000V,1time	0/3	Class: Equivalent to C2b
Resistance to Soldering Heat (PC)	JESD22-A113, J-STD-020	MSL3(Moisture Sensitivity Level 3)	0/22	

*1) With preconditioning per JESD22-A113, MSL 3 •It is tested to confirm that all the samples are satisfied with an individual product specification.

Note :

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



Table. Reliability test results (LGA)

Test Items	Reference	Test Conditions	Results Failure/Size	Comment
High Temperature Operating Life (HTOL)	JESD22-A108	Ta=125 ℃, Vccmax, 1000 hrs	0/22	
High Temperature Storage Life (HTSL)	JESD22-A103	Ta=150 ℃, 1000 hrs	0/22	
Temperature Humidity bias (THB) (*1)	JESD22-A101	Ta=85 °C, RH=85 %, Vccmax, 1000 hrs	0/22	
Temperature Cycling (TC) (*1)	JESD22-A104	Ta=-55 ℃ to 125 ℃ , 500 cycles	0/22	
Latch-Up (LU)	JESD78	Pulse Current Injection, I=+/-150 mA	0/3	
Electrostatic discharge (ESD-HBM)	JS-001	1.5 kΩ, 100 pF, +/-2000 V, 1 time	0/3	Class: 2
Electrostatic discharge (ESD-CDM)	JEITA ED-4701/302	+/-1000V,1time	0/3	Class: Equivalent to C2b
Resistance to Soldering Heat (PC)	JESD22-A113, J-STD-020	MSL3(Moisture Sensitivity Level 3)	0/22	

*1) With preconditioning per JESD22-A113, MSL 3

•It is tested to confirm that all the samples are satisfied with an individual product specification.

Note :

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



The failure rate of the device in an actual use condition can be estimated by the below procedure.

• Equation for the failure rate estimation (λ)

 $\lambda = \lambda b \times \pi T$ (FIT)

①Unique failure rate (λ b)

λb= 0.03 FIT

Unique failure rate at Ta=55 $^{\circ}$ C using 60 $^{\circ}$ confidence level.

②Temperature term (π T)

 π T=exp{11600×Ea×(1/(273+55)-1/(273+Ta))}

Ea: Activation energy (eV)

Ta : Ambient temperature ($^{\circ}$ C)

7	π T simplified chart as Ea=0.7 eV												
	Ta (℃)	40	50	55	60	65	70	75	80	85	90	100	110
	πT	0.31	0.68	1	1.45	2.08	2.95	4.15	5.77	7.96	10.88	19.82	34.99

•MTTF (Mean Time To Failure)

 $MTTF = 1/\lambda$



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Reference about Renesas package code

Package type	Package code *1	
Lead type plastic package	QFP	PxQP
Non-lead type plastic package	QFN	PxQN
Grid array type plastic package	BGA	PxBG
	LGA	PxLG

*1. First four digit

Table. Product list

No	Group	Product part number	Package code	No	Group	Product part number	Package code
1	RX631	R5F56316CDBG	PLBG0176G*	51	RX631	R5F5631JDGFB	PLOP0144K*
2	RX631	R5F56316DDBG	PLBG0176G*	52	RX631	R5F5631KDDFB	PLOP0144K*
3	RX631	R5F56316SDBG	PLBG0176G*	53	RX631	R5F5631KDGFB	PLOP0144K*
4	RX631	R5F56317CDBG	PLBG0176G*	54	RX631	R5F5631WDDFB	PLOP0144K*
5	RX631	R5F56317DDBG	PLBG0176G*	55	RX631	R5F5631WDGFB	PLOP0144K*
6	RX631	R5F56317SDBG	PLBG0176G*	56	RX631	R5F5631WHDFB	PLOP0144K*
7	RX631	R5F56318CDBG	PI BG0176G*	57	RX631	R5F5631YDDFB	PL OP0144K*
8	RX631	R5F56318DDBG	PI BG0176G*	58	RX631	R5F5631YDGFB	PL OP0144K*
9	RX631	R5F56318SDBG	PI BG0176G*	59	RX631	R5F5631YHDFB	PL OP0144K*
10	RX631	R5F5631ACDBG	PL BG0176G*	60	RX631	R5F56316CDFC	PL OP0176K*
11	RX631	R5F5631ADDBG	PL BG0176G*	61	RX631	R5F56316DDFC	PL OP0176K*
12	RX631	R5F5631BCDBG	PL BG0176G*	62	RX631	R5F56316DGFC	PL OP0176K*
13	RX631	R5F5631BDDBG	PL BG0176G*	63	RX631	R5F56316SDFC	PL OP0176K*
14	RX631	R5F5631DCDBG	PL BG0176G*	64	RX631	R5F56316SGFC	PL OP0176K*
15	RX631	R5F5631DDDBG	PLBG0176G*	65	RX631	R5F56317CDFC	PL OP0176K*
16	RX631	R5F5631FCDBG	PLBG0176G*	66	RX631	R5F56317DDFC	PL OP0176K*
17	RX631	R5F5631EDDBG	PLBG0176G*	67	RX631	R5F56317DGFC	PL OP0176K*
18	RX631	R5F56316CDFB	PL OP0144K*	68	RX631	R5F56317SDEC	PL OP0176K*
19	RX631	R5F56316DDFB	PLOP0144K*	69	RX631	R5F56317SGFC	PL OP0176K*
20	RX631	R5F56316DGFB	PLOP0144K*	70	RX631	R5F56318CDFC	PL OP0176K*
21	RX631	R5F56316SDFB	PLOP0144K*	71	RX631	R5F56318DDFC	PL OP0176K*
22	RX631	R5F56316SGFB	PLOP0144K*	72	RX631	R5F56318DGFC	PLOP0176K*
23	RX631	R5F56317CDFB	PLOP0144K*	73	RX631	R5F56318SDFC	PLOP0176K*
24	RX631	R5F56317DDFB	PLOP0144K*	74	RX631	R5F56318SGFC	PLOP0176K*
25	RX631	R5E56317DGEB	PLOP0144K*	75	RX631	R5F5631ACDFC	PL OP0176K*
26	RX631	R5F56317SDFB	PLOP0144K*	76	RX631	R5F5631ADDFC	PL OP0176K*
27	RX631	R5F56317SGFB	PLOP0144K*	77	RX631	R5F5631ADGFC	PLOP0176K*
28	RX631	R5F56318CDFB	PLOP0144K*	78	RX631	R5F5631BCDFC	PLOP0176K*
29	RX631	R5F56318DDFB	PLQP0144K*	79	RX631	R5F5631BDDFC	PLOP0176K*
30	RX631	R5F56318DGFB	PLQP0144K*	80	RX631	R5F5631BDGFC	PLQP0176K*
31	RX631	R5F56318SDFB	PLQP0144K*	81	RX631	R5F5631DCDFC	PLQP0176K*
32	RX631	R5F56318SGFB	PLQP0144K*	82	RX631	R5F5631DDDFC	PLQP0176K*
33	RX631	R5F5631ACDFB	PLQP0144K*	83	RX631	R5F5631DDGFC	PLQP0176K*
34	RX631	R5F5631ADDFB	PLQP0144K*	84	RX631	R5F5631ECDFC	PLQP0176K*
35	RX631	R5F5631ADGFB	PLQP0144K*	85	RX631	R5F5631EDDFC	PLQP0176K*
36	RX631	R5F5631BCDFB	PLQP0144K*	86	RX631	R5F5631EDGFC	PLQP0176K*
37	RX631	R5F5631BDDFB	PLQP0144K*	87	RX631	R5F5631FDDFC	PLQP0176K*
38	RX631	R5F5631BDGFB	PLQP0144K*	88	RX631	R5F5631FDGFC	PLQP0176K*
39	RX631	R5F5631DCDFB	PLQP0144K*	89	RX631	R5F5631FHDFC	PLQP0176K*
40	RX631	R5F5631DDDFB	PLQP0144K*	90	RX631	R5F5631KDDFC	PLQP0176K*
41	RX631	R5F5631DDGFB	PLQP0144K*	91	RX631	R5F5631KDGFC	PLQP0176K*
42	RX631	R5F5631ECDFB	PLQP0144K*	92	RX631	R5F5631WDDFC	PLQP0176K*
43	RX631	R5F5631EDDFB	PLQP0144K*	93	RX631	R5F5631WDGFC	PLQP0176K*
44	RX631	R5F5631EDGFB	PLQP0144K*	94	RX631	R5F5631WHDFC	PLQP0176K*
45	RX631	R5F5631FDDFB	PLQP0144K*	95	RX631	R5F5631YDDFC	PLQP0176K*
46	RX631	R5F5631FDGFB	PLQP0144K*	96	RX631	R5F5631YDGFC	PLQP0176K*
47	RX631	R5F5631FHDFB	PLQP0144K*	97	RX631	R5F5631YHDFC	PLQP0176K*
48	RX631	R5F5631GDDFB	PLQP0144K*	98	RX631	R5F5631MCDFL	PLQP0048K*
49	RX631	R5F5631GDGFB	PLQP0144K*	99	RX631	R5F5631MDDFL	PLQP0048K*
50	RX631	R5F5631JDDFB	PLQP0144K*	100	RX631	R5F5631MDGFL	PLQP0048K*



Table. Product list

MCR	-22-	031	1

Tuble	1 Treader lies						1101(22 0011
No	Group	Product part number	Package code	No	Group	Product part number	Package code
101	RX631	R5F5631NCDFL	PLQP0048K*	161	RX631	R5F5631DDDFR	PLQP0176L*
102	RX631	R5F5631NDDFL	PLQP0048K*	162	RX631	R5F5631DDGFR	PLQP0176L*
103	RX631	R5F5631NDGFL	PLOP0048K*	163	RX631	R5F5631ECDFR	PLOP0176L*
104	RX631	R5F5631PCDFL	PLOP0048K*	164	RX631	R5F5631EDDFR	PLOP0176L*
105	RX631	R5F5631PDDFL	PLOP0048K*	165	RX631	R5F5631EDGFR	PLOP0176L*
106	RX631	R5F5631PDGEL	PL OP0048K*	166	RX631	R5F56316CDLC	PTI G0177K*
107	RX631	R5E5631MCDEM	PL OP0064K*	167	RX631	R5F56316DDLC	PTI G0177K*
108	RX631	R5F5631MDDFM	PL OP0064K*	168	RX631	R5F56316SDLC	PTLG0177K*
100	RX631	R5F5631MDGFM		169	RX631	R5F56317CDLC	PTI G0177K*
110	DY631	P5F5631NCDEM		170	DY631		DTI C0177K*
111				170			
112				171	RAUSI DVC21		
112	RX631			172	RX631		PILGU177K*
113	RX631	R5F5631PCDFM	PLQP0064K*	1/3	RX631	R5F56318DDLC	PILGU17/K*
114	RX631	R5F5631PDDFM	PLQP0064K*	1/4	RX631	R5F56318SDLC	PILG01//K*
115	RX631	R5F5631PDGFM	PLQP0064K*	1/5	RX631	R5F5631ACDLC	PILG01//K*
116	RX631	R5F56316CDFP	PLQP0100K*	176	RX631	R5F5631ADDLC	PTLG0177K*
117	RX631	R5F56316DDFP	PLQP0100K*	177	RX631	R5F5631BCDLC	PTLG0177K*
118	RX631	R5F56316DGFP	PLQP0100K*	178	RX631	R5F5631BDDLC	PTLG0177K*
119	RX631	R5F56317CDFP	PLQP0100K*	179	RX631	R5F5631DCDLC	PTLG0177K*
120	RX631	R5F56317DDFP	PLQP0100K*	180	RX631	R5F5631DDDLC	PTLG0177K*
121	RX631	R5F56317DGFP	PLQP0100K*	181	RX631	R5F5631ECDLC	PTLG0177K*
122	RX631	R5F56318CDFP	PLQP0100K*	182	RX631	R5F5631EDDLC	PTLG0177K*
123	RX631	R5F56318DDFP	PLQP0100K*	183	RX631	R5F56318QDLD	PTLG0085J*
124	RX631	R5F56318DGFP	PLQP0100K*	184	RX631	R5F5631ACDLD	PTLG0085J*
125	RX631	R5F56318QDFP	PLOP0100K*	185	RX631	R5F5631ADDLD	PTLG0085J*
126	RX631	R5F5631ACDFP	PLOP0100K*	186	RX631	R5F5631BCDLD	PTLG0085J*
127	RX631	R5F5631ADDFP	PI OP0100K*	187	RX631	R5F5631BDDLD	PTI G00851*
128	RX631	R5E5631ADGEP	PLOP0100K*	188	RX631	R5F56316CDLF	PTI G01451*
129	RX631	R5E5631BCDEP	PL OP0100K*	189	RX631	R5F56316DDLE	PTI G01451*
130	RX631	R5F5631BDDFP	PLOP0100K*	190	RX631	R5F56316SDLE	PTI G01451*
131	RX631	R5F5631BDGEP		101	RX631	R5F56317CDLE	PTI G01451*
132	RX631	R5F5631DCDEP		102	RX631	R5F56317DDLE	PTI G01451*
122	DV621			102	DV621		DTL C01451*
124				193			
125				194			
135				195			
127	RX031			190	RX031		PTLG0145J*
137	RX631	R5F5631EDGFP		197	RX631		PTLG0145J*
138	RX631	R5F5631FDDFP	PLQP0100K*	198	RX631	R5F5631ADDLE	PILG0145J*
139	RX631	R5F5631FDGFP	PLQP0100K*	199	RX631	R5F5631BCDLE	PILG0145J*
140	RX631	R5F5631FHDFP	PLQP0100K*	200	RX631	R5F5631BDDLE	PILG0145J*
141	RX631	R5F5631GDDFP	PLQP0100K*	201	RX631	R5F5631DCDLE	PILG0145J*
142	RX631	R5F5631GDGFP	PLQP0100K*	202	RX631	R5F5631DDDLE	PTLG0145J*
143	RX631	R5F5631JDDFP	PLQP0100K*	203	RX631	R5F5631ECDLE	PTLG0145J*
144	RX631	R5F5631JDGFP	PLQP0100K*	204	RX631	R5F5631EDDLE	PTLG0145J*
145	RX631	R5F5631KDDFP	PLQP0100K*	205	RX631	R5F5631MFDLH	PTLG0064J*
146	RX631	R5F5631KDGFP	PLQP0100K*	206	RX631	R5F5631PFDLH	PTLG0064J*
147	RX631	R5F5631SQDFP	PLQP0100K*	207	RX631	R5F56316CDLJ	PTLG0100J*
148	RX631	R5F5631WDDFP	PLQP0100K*	208	RX631	R5F56316DDLJ	PTLG0100J*
149	RX631	R5F5631WDGFP	PLQP0100K*	209	RX631	R5F56317CDLJ	PTLG0100J*
150	RX631	R5F5631WHDFP	PLQP0100K*	210	RX631	R5F56317DDLJ	PTLG0100J*
151	RX631	R5F5631YDDFP	PLOP0100K*	211	RX631	R5F56318CDLJ	PTLG0100J*
152	RX631	R5F5631YDGFP	PLOP0100K*	212	RX631	R5F56318DDLJ	PTLG0100J*
153	RX631	R5F5631YHDFP	PLOP0100K*	213	RX631	R5F5631ACDI 1	PTLG01001*
154	RX631	R5F5631ACDFR	PL OP0176I *	214	RX631	R5F5631ADDI 1	PTI G01001*
155	RX631	R5F5631ADDFR	PLOP0176L*	215	RX631	R5F5631BCDL1	PTI G01001*
156	RX631	R5F5631ADCFR	PLOP0176L*	216	RX631	R5E5631BDDD 1	PTL G01001*
157	RX631	RSES631RCDED		217	RX631	R5F5631DCDLJ	PTI C01001*
150	DV621			210	DV621		DTI C01001*
150				210			DTL C01001*
109				219			
UUUU	182031	KOLOQTINCALK	PLUPU1/6L [™]	1220	182031	IKSESØSTEDULJ	IFILGU1UUJ [™]



Table. Product list

MC	R-22-	031	1

No	Group	Product part number	Package code	No	Group	Product part number	Package code
221	RX631	R5F56316CDLK	PTLG0145K*				
222	RX631	R5F56316DDLK	PTLG0145K*				
223	RX631	R5F56316SDLK	PTI G0145K*				
224	RX631	R5F56317CDLK	PTI G0145K*				
225	RX631	R5F56317DDLK	PTI G0145K*				
226	RX631	R5F56317SDLK	PTI G0145K*				
220	RX631	R5F56318CDLK	PTI G0145K*				
227	RX631	R5F56318DDLK	PTI G0145K*				
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234	RX631	R5F5631DCDLK	PTLG0145K*				
235	RX631	R5F5631DDDLK	PTLG0145K*				
236	RX631	R5F5631ECDLK	PTLG0145K*				
237	RX631	R5F5631EDDLK	PILG0145K*				
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