

Report No. MCR-22-0310 April 26,2022

RENESAS SEMICONDUCTOR RELIABILITY REPORT

GROUP: RX630

DEVICE : R5F5630XXX

APPLICATION: Consumer / Industry

Quality Assurance Div. Renesas Electronics Corporation



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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 $ℂ$, 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 | |

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

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



Table. Reliability test results (BGA)

| Test Items | Test Items Reference | | 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

Note:

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

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



Table. Reliability test results (LGA)

| Test Items | Reference | rence Test Conditions | | 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 $^{\circ}$ C to 125 $^{\circ}$ C , 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

Note .

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

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

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 (λb)

$$\lambda b = 0.03 \text{ FIT}$$

Unique failure rate at Ta=55 ℃ using 60 % confidence level.

②Temperature term (π T)

$$\pi T = \exp\{11600 \times Ea \times (1/(273+55)-1/(273+Ta))\}$$

Ea: Activation energy (eV) Ta: Ambient temperature ($^{\circ}$ C)

| π T simplified chart as Ea=0.7 eV | | | | | | | | | | | | |
|---|------|------|---|------|------|------|------|------|------|-------|-------|-------|
| Ta (°C) 40 50 55 60 65 70 75 80 85 90 100 110 | | | | | | | | | | | | |
| πТ | 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)

$$MTTF = 1/\lambda$$



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

| Table | e. Product li | st | | | | | |
|-------|---------------|---------------------|--------------|-----|-------|---------------------|--------------|
| No | Group | Product part number | Package code | No | Group | Product part number | Package code |
| 1 | RX630 | R5F56308CDBG | PLBG0176G* | 51 | RX630 | R5F56306CDFN | PLQP0080K* |
| 2 | RX630 | R5F56308DDBG | PLBG0176G* | 52 | RX630 | R5F56306DDFN | PLQP0080K* |
| 3 | RX630 | R5F5630ACDBG | PLBG0176G* | 53 | RX630 | R5F56307CDFN | PLQP0080K* |
| 4 | RX630 | R5F5630ADDBG | PLBG0176G* | 54 | RX630 | R5F56307DDFN | PLQP0080K* |
| 5 | RX630 | R5F5630BCDBG | PLBG0176G* | 55 | RX630 | R5F56307DGFN | PLQP0080K* |
| 6 | RX630 | R5F5630BDDBG | PLBG0176G* | 56 | RX630 | R5F56308CDFN | PLQP0080K* |
| 7 | RX630 | R5F5630DCDBG | PLBG0176G* | 57 | RX630 | R5F56308DDFN | PLQP0080K* |
| 8 | RX630 | R5F5630DDDBG | PLBG0176G* | 58 | RX630 | R5F56308DGFN | PLQP0080K* |
| 9 | RX630 | R5F5630ECDBG | PLBG0176G* | 59 | RX630 | R5F56303CDFP | PLQP0100K* |
| 10 | RX630 | R5F5630EDDBG | PLBG0176G* | 60 | RX630 | R5F56303DDFP | PLQP0100K* |
| 11 | RX630 | R5F56306CDFB | PLQP0144K* | 61 | RX630 | R5F56305CDFP | PLQP0100K* |
| 12 | RX630 | R5F56306DDFB | PLQP0144K* | 62 | RX630 | R5F56305DDFP | PLQP0100K* |
| 13 | RX630 | R5F56307CDFB | PLQP0144K* | 63 | RX630 | R5F56306CDFP | PLQP0100K* |
| 14 | RX630 | R5F56307DDFB | PLQP0144K* | 64 | RX630 | R5F56306DDFP | PLQP0100K* |
| 15 | RX630 | R5F56308CDFB | PLQP0144K* | 65 | RX630 | R5F56307CDFP | PLQP0100K* |
| 16 | RX630 | R5F56308DDFB | PLQP0144K* | 66 | RX630 | R5F56307DDFP | PLQP0100K* |
| 17 | RX630 | R5F56308JDFB | PLQP0144K* | 67 | RX630 | R5F56307DGFP | PLQP0100K* |
| 18 | RX630 | R5F5630ACDFB | PLQP0144K* | 68 | RX630 | R5F56308CDFP | PLQP0100K* |
| 19 | RX630 | R5F5630ADDFB | PLQP0144K* | 69 | RX630 | R5F56308DDFP | PLQP0100K* |
| 20 | RX630 | R5F5630ADGFB | PLQP0144K* | 70 | RX630 | R5F56308DGFP | PLQP0100K* |
| 21 | RX630 | R5F5630BCDFB | PLQP0144K* | 71 | RX630 | R5F56308JDFP | PLQP0100K* |
| 22 | RX630 | R5F5630BDDFB | PLQP0144K* | 72 | RX630 | R5F56308MDFP | PLQP0100K* |
| 23 | RX630 | R5F5630BDGFB | PLQP0144K* | 73 | RX630 | R5F5630ACDFP | PLQP0100K* |
| 24 | RX630 | R5F5630DCDFB | PLQP0144K* | 74 | RX630 | R5F5630ADDFP | PLQP0100K* |
| 25 | RX630 | R5F5630DDDFB | PLQP0144K* | 75 | RX630 | R5F5630ADGFP | PLQP0100K* |
| 26 | RX630 | R5F5630DJDFB | PLQP0144K* | 76 | RX630 | R5F5630BCDFP | PLQP0100K* |
| 27 | RX630 | R5F5630ECDFB | PLQP0144K* | 77 | RX630 | R5F5630BDDFP | PLQP0100K* |
| 28 | RX630 | R5F5630EDDFB | PLQP0144K* | 78 | RX630 | R5F5630BDGFP | PLQP0100K* |
| 29 | RX630 | R5F5630KCDFB | PLQP0144K* | 79 | RX630 | R5F5630DCDFP | PLQP0100K* |
| 30 | RX630 | R5F5630KDDFB | PLQP0144K* | 80 | RX630 | R5F5630DDDFP | PLQP0100K* |
| 31 | RX630 | R5F5630NJDFB | PLQP0144K* | 81 | RX630 | R5F5630ECDFP | PLQP0100K* |
| 32 | RX630 | R5F5630QJDFB | PLQP0144K* | 82 | RX630 | R5F5630EDDFP | PLQP0100K* |
| 33 | RX630 | R5F5630SDDFB | PLQP0144K* | 83 | RX630 | R5F5630LJDFP | PLQP0100K* |
| 34 | RX630 | R5F5630SJDFB | PLQP0144K* | 84 | RX630 | R5F5630NJDFP | PLQP0100K* |
| 35 | RX630 | R5F5630TJDFB | PLQP0144K* | 85 | RX630 | R5F5630QJDFP | PLQP0100K* |
| 36 | RX630 | R5F56308CDFC | PLQP0176K* | 86 | RX630 | R5F5630ACDFR | PLQP0176L* |
| 37 | RX630 | R5F56308DDFC | PLQP0176K* | 87 | RX630 | R5F5630ADDFR | PLQP0176L* |
| 38 | RX630 | R5F5630ACDFC | PLQP0176K* | 88 | RX630 | R5F5630BCDFR | PLQP0176L* |
| 39 | RX630 | R5F5630ADDFC | PLQP0176K* | 89 | RX630 | R5F5630BDDFR | PLQP0176L* |
| 40 | RX630 | R5F5630BCDFC | PLQP0176K* | 90 | RX630 | R5F5630DCDFR | PLQP0176L* |
| 41 | RX630 | R5F5630BDDFC | PLQP0176K* | 91 | RX630 | R5F5630DDDFR | PLQP0176L* |
| 42 | RX630 | R5F5630DCDFC | PLQP0176K* | 92 | RX630 | R5F5630ECDFR | PLQP0176L* |
| 43 | RX630 | R5F5630DDDFC | PLQP0176K* | 93 | RX630 | R5F5630EDDFR | PLQP0176L* |
| 44 | RX630 | R5F5630ECDFC | PLQP0176K* | 94 | RX630 | R5F56303CDLA | PTLG0100K* |
| 45 | RX630 | R5F5630EDDFC | PLQP0176K* | 95 | RX630 | R5F56303DDLA | PTLG0100K* |
| 46 | RX630 | R5F5630TJDFC | PLQP0176K* | 96 | RX630 | R5F56305CDLA | PTLG0100K* |
| 47 | RX630 | R5F56303CDFN | PLQP0080K* | 97 | RX630 | R5F56305DDLA | PTLG0100K* |
| 48 | RX630 | R5F56303DDFN | PLQP0080K* | 98 | RX630 | R5F56306CDLA | PTLG0100K* |
| 49 | RX630 | R5F56305CDFN | PLQP0080K* | 99 | RX630 | R5F56306DDLA | PTLG0100K* |
| 50 | RX630 | R5F56305DDFN | PLQP0080K* | 100 | RX630 | R5F56307CDLA | PTLG0100K* |



Table. Product list MCR-22-0310

| No | Group | Product part number | Package code | No | Group | Product part number | Package code |
|-----|-------|---------------------|--------------|-----|-------|---------------------|--------------|
| 101 | RX630 | R5F56307DDLA | PTLG0100K* | 161 | Group | Froduct part number | rackage code |
| | RX630 | R5F56308CDLA | PTLG0100K* | 162 | | | |
| 103 | RX630 | | - | 163 | | | |
| 103 | | R5F56308DDLA | PTLG0100K* | 164 | | | |
| | RX630 | R5F56308CDLC | PTLG0177K* | | | | |
| 105 | RX630 | R5F56308DDLC | PTLG0177K* | 165 | | | |
| 106 | RX630 | R5F5630ACDLC | PTLG0177K* | 166 | | | |
| 107 | RX630 | R5F5630ADDLC | PTLG0177K* | 167 | | | |
| 108 | RX630 | R5F5630BCDLC | PTLG0177K* | 168 | | | |
| 109 | RX630 | R5F5630BDDLC | PTLG0177K* | 169 | | | |
| 110 | RX630 | R5F5630DCDLC | PTLG0177K* | 170 | | | |
| 111 | RX630 | R5F5630DDDLC | PTLG0177K* | 171 | | | |
| 112 | RX630 | R5F5630ECDLC | PTLG0177K* | 172 | | | |
| 113 | RX630 | R5F5630EDDLC | PTLG0177K* | 173 | | | |
| 114 | RX630 | R5F56306CDLE | PTLG0145J* | 174 | | | |
| 115 | RX630 | R5F56306DDLE | PTLG0145J* | 175 | | | |
| 116 | RX630 | R5F56307CDLE | PTLG0145J* | 176 | | | |
| 117 | RX630 | R5F56307DDLE | PTLG0145J* | 177 | | | |
| 118 | RX630 | R5F56308CDLE | PTLG0145J* | 178 | | | |
| 119 | RX630 | R5F56308DDLE | PTLG0145J* | 179 | | | |
| | RX630 | R5F5630ACDLE | PTLG0145J* | 180 | | | |
| 121 | RX630 | R5F5630ADDLE | PTLG0145J* | 181 | | | |
| 122 | RX630 | R5F5630BCDLE | PTLG0145J* | 182 | | | |
| 123 | RX630 | R5F5630BDDLE | PTLG0145J* | 183 | | | |
| 124 | RX630 | R5F5630DCDLE | PTLG0145J* | 184 | | | |
| 125 | RX630 | R5F5630DDDLE | PTLG0145J* | 185 | | | |
| 126 | RX630 | R5F5630ECDLE | PTLG0145J* | 186 | | | |
| 127 | RX630 | R5F5630EDDLE | PTLG0145J* | 187 | | | |
| 128 | RX630 | R5F56303CDLJ | PTLG0100J* | 188 | | | |
| 129 | RX630 | R5F56303DDLJ | PTLG0100J* | 189 | | | |
| 130 | RX630 | R5F56305CDLJ | PTLG0100J* | 190 | | | |
| 131 | RX630 | R5F56305DDLJ | PTLG0100J* | 191 | | | |
| 132 | RX630 | R5F56306CDLJ | PTLG0100J* | 192 | | | |
| 133 | RX630 | R5F56306DDLJ | PTLG0100J* | 193 | | | |
| 134 | RX630 | R5F56307CDLJ | PTLG0100J* | 194 | | | |
| 135 | RX630 | R5F56307DDLJ | PTLG0100J* | 195 | | | |
| 136 | RX630 | R5F56308CDLJ | PTLG0100J* | 196 | | | |
| 137 | RX630 | R5F56308DDLJ | PTLG0100J* | 197 | | | |
| 138 | RX630 | R5F5630ACDLJ | PTLG0100J* | 198 | | | |
| 139 | RX630 | R5F5630ADDLJ | PTLG0100J* | 199 | | | |
| 140 | RX630 | R5F5630BCDLJ | PTLG0100J* | 200 | | | |
| 141 | RX630 | R5F5630BDDLJ | PTLG0100J* | 201 | | | |
| 142 | RX630 | R5F5630DCDLJ | PTLG0100J* | 202 | | | |
| 143 | RX630 | R5F5630DDDLJ | PTLG0100J* | 203 | | | |
| | RX630 | R5F5630ECDLJ | PTLG0100J* | 204 | | | |
| | RX630 | R5F5630EDDLJ | PTLG0100J* | 205 | | | |
| | RX630 | R5F56306CDLK | PTLG0145K* | 206 | | | |
| 147 | RX630 | R5F56306DDLK | PTLG0145K* | 207 | | | |
| 148 | RX630 | R5F56307CDLK | PTLG0145K* | 208 | | | |
| 149 | RX630 | R5F56307DDLK | PTLG0145K* | 209 | | | |
| 150 | RX630 | R5F56308CDLK | PTLG0145K* | 210 | | | |
| 151 | RX630 | R5F56308DDLK | PTLG0145K* | 211 | | | |
| 152 | RX630 | R5F5630ACDLK | PTLG0145K* | 212 | | | |
| | RX630 | R5F5630ADDLK | PTLG0145K* | 213 | | | |
| | RX630 | R5F5630BCDLK | PTLG0145K* | 214 | | | |
| | RX630 | R5F5630BDDLK | PTLG0145K* | 215 | | | |
| | RX630 | R5F5630DCDLK | PTLG0145K* | 216 | | | |
| 157 | RX630 | R5F5630DDDLK | PTLG0145K* | 217 | | | |
| 158 | RX630 | R5F5630ECDLK | PTLG0145K* | 218 | | | |
| 159 | RX630 | R5F5630EDDLK | PTLG0145K* | 219 | | | |
| 160 | | 0000LDDLIN | | 220 | | | 1 |
| 100 | 1 | <u>I</u> | <u> </u> | 220 | | <u> </u> | ı |