

## Product Change Notice (PCN)

**Subject:** Plating Fab change of Yamagata Denshi Products

**Publication Date:** 4/22/2022

**Effective Date:** 1/1/2023

**Revision Description:**

Initial Release

**Description of Change:**

Change the outer lead Plating Fab of below Yamagata Denshi products from Company A to Company B.

| item                  | After Change<br>(Company B)               | Before Change<br>(Company A)               | remarks  |
|-----------------------|---|--|--|
| Deburr                | Water jet                                 | Wet blast                                  | we had actual result of same package in our Malaysia Factory.  |
| Outer lead<br>Plating | SnBi<br>Sn100                             | SnBi<br>Sn100                              | No change  |
| Equipment             | Deburr-Plating<br>integrated<br>equipment | Deburr, Plating<br>individual<br>equipment | We have actual result for our equivalent package.<br>Plating equipment is same type as which we had actual result of same package in our Malaysia Factory. |

Company B, We have actual result more than 100Mp of SnBi outer lead plating for our equivalent package.

**Affected Product List:**

Please Refer to the Affected product List after P.3.

**Reason for Change:**

Emergency end-of-production notification at end of Dec'2022 from current Plating Fab Company A.

**Impact on Fit, Form, Function, Quality & Reliability:** None

**Product Identification:**

Unable by product itself, but applicable Lot is identifiable by internal record.

**Qualification Status:** We will implement evaluation and provide the data by requirement (after Aug'2022).

**Sample Availability Date:** Unable to provide due to Emergency end-of-production notification, but we will implement enough evaluation.

**Device Material Declaration:** We will provide by requirement.

- 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 your Renesas sales representative.**

### Affected product List (1)

| No | Product type name | No  | Product type name | No  | Product type name |
|----|-------------------|-----|-------------------|-----|-------------------|
| 1  | 2SA1226(O)-T1B-A  | 51  | 2SC1623-T1B-AT    | 101 | FA1A4M-D-T1-A     |
| 2  | 2SA1226-T1B-A     | 52  | 2SC1623-T2B-A     | 102 | FA1A4M-D-T2-A     |
| 3  | 2SA1330(O)-T1B-A  | 53  | 2SC1654-T1B-A     | 103 | FA1A4M-T1B-A      |
| 4  | 2SA1330(O)-T1B-AT | 54  | 2SC1654-T2B-A     | 104 | FA1A4M-T1B-AT     |
| 5  | 2SA1330-T1B-A     | 55  | 2SC2223-T1B-A     | 105 | FA1A4M-T2B-A      |
| 6  | 2SA1330-T2B-A     | 56  | 2SC2223-T2B-A     | 106 | FA1A4P(O)-T1B-A   |
| 7  | 2SA1464-T1B-A     | 57  | 2SC3360(O)-T1B-A  | 107 | FA1A4P-T1B-A      |
| 8  | 2SA1464-T2B-A     | 58  | 2SC3360(O)-T1B-AT | 108 | FA1A4P-T2B-A      |
| 9  | 2SA1608(O)-T1-A   | 59  | 2SC3360(O)-T2B-A  | 109 | FA1A4Z-T1B-A      |
| 10 | 2SA1608-T1-A      | 60  | 2SC3360-T1B-A     | 110 | FA1F4M-T1B-A      |
| 11 | 2SA1608-T2-A      | 61  | 2SC3360-T1B-AT    | 111 | FA1F4M-T2B-A      |
| 12 | 2SA1611(O)-T1-A   | 62  | 2SC3360-T2B-A     | 112 | FA1F4N(O)-T1B-A   |
| 13 | 2SA1611(O)-T1-AT  | 63  | 2SC3624(O)-T1B-A  | 113 | FA1F4N-T1B-A      |
| 14 | 2SA1611-D-T1-A    | 64  | 2SC3624(O)-T1B-AT | 114 | FA1F4Z-T1B-A      |
| 15 | 2SA1611-T1-A      | 65  | 2SC3624A-T1B-A    | 115 | FA1L3M-T1B-A      |
| 16 | 2SA1611-T2-A      | 66  | 2SC3624A-T1B-AT   | 116 | FA1L3M-T2B-A      |
| 17 | 2SA1612-T1-A      | 67  | 2SC3624-T1B-A     | 117 | FA1L3N(O)-T1B-A   |
| 18 | 2SA1612-T2-A      | 68  | 2SC3624-T2B-A     | 118 | FA1L3N-T1B-A      |
| 19 | 2SA811A-T1B-A     | 69  | 2SC3739(O)-T1B-A  | 119 | FA1L3N-T1B-AT     |
| 20 | 2SA811A-T2B-A     | 70  | 2SC3739-T1B-A     | 120 | FA1L3N-T2B-A      |
| 21 | 2SA812(O)-T1B-A   | 71  | 2SC3739-T1B-AT    | 121 | FA1L3Z-T1B-A      |
| 22 | 2SA812(O)-T1B-AT  | 72  | 2SC3739-T2B-A     | 122 | FA1L3Z-T2B-A      |
| 23 | 2SA812-D-T1-A     | 73  | 2SC4173-T1-A      | 123 | FA1L4L-T1B-A      |
| 24 | 2SA812-D-T2-A     | 74  | 2SC4173-T2-A      | 124 | FA1L4M-T1B-A      |
| 25 | 2SA812-T1B-A      | 75  | 2SC4177(O)-T1-A   | 125 | FA1L4M-T1B-AT     |
| 26 | 2SA812-T1B-AT     | 76  | 2SC4177(O)-T1-AT  | 126 | FA1L4M-T2B-A      |
| 27 | 2SA812-T2B-A      | 77  | 2SC4177-D-T1-A    | 127 | FA1L4Z-T1B-A      |
| 28 | 2SB1475-T1-A      | 78  | 2SC4177-D-T2-A    | 128 | FA4A3Q-T1B-A      |
| 29 | 2SB624-T1B-A      | 79  | 2SC4177-T1-A      | 129 | FA4A4L-T1B-A      |
| 30 | 2SB624-T1B-AT     | 80  | 2SC4177-T2-A      | 130 | FA4A4M-T1B-A      |
| 31 | 2SB624-T2B-A      | 81  | 2SC4178-T1-A      | 131 | FA4A4P(O)-T1B-A   |
| 32 | 2SB736(O)-T1B-A   | 82  | 2SC4179-T1-A      | 132 | FA4A4P-T1B-A      |
| 33 | 2SB736A(O)-T1B-A  | 83  | 2SC4180(O)-T1-A   | 133 | FA4A4Z-T1B-A      |
| 34 | 2SB736A(O)-T1B-AT | 84  | 2SC4180-T1-A      | 134 | FA4F3P-T1B-A      |
| 35 | 2SB736A(O)-T2B-A  | 85  | 2SC4180-T2-A      | 135 | FA4F3R-T1B-A      |
| 36 | 2SB736A-T1B-A     | 86  | 2SC4181A-T1-A     | 136 | FA4F4N-T1B-A      |
| 37 | 2SB736A-T1B-AT    | 87  | 2SC4181-T1-A      | 137 | FA4L3M-T1B-A      |
| 38 | 2SB736A-T2B-A     | 88  | 2SD596-T1B-A      | 138 | FA4L3N-T1B-A      |
| 39 | 2SB736-D-T1-A     | 89  | 2SD596-T2B-A      | 139 | FA4L4K-T1B-A      |
| 40 | 2SB736-T1B-A      | 90  | 2SD780(O)-T1B-A   | 140 | FB1A3M-T1B-A      |
| 41 | 2SB736-T2B-A      | 91  | 2SD780A(O)-T1B-A  | 141 | FB1A4A-T1B-A      |
| 42 | 2SC1009A-T1B-A    | 92  | 2SD780A-T1B-A     | 142 | FB1A4M-T1B-A      |
| 43 | 2SC1622A-T1B-A    | 93  | 2SD780A-T1B-AT    | 143 | FB1A4M-T2B-A      |
| 44 | 2SC1622A-T2B-A    | 94  | 2SD780A-T2B-A     | 144 | FB1F3P-T1B-A      |
| 45 | 2SC1623(O)-T1B-A  | 95  | 2SD780-T1B-A      | 145 | FB1J3P-T1B-A      |
| 46 | 2SC1623(O)-T1B-AT | 96  | 2SD780-T2B-A      | 146 | FB1L2Q-T1B-A      |
| 47 | 2SC1623(O)-T2B-A  | 97  | FA1A3Q-T1B-A      | 147 | FB1L2Q-T2B-A      |
| 48 | 2SC1623-D-T1-A    | 98  | FA1A3Q-T2B-A      | 148 | FB1L3N-T1B-A      |
| 49 | 2SC1623-D-T2-A    | 99  | FA1A4M(O)-T1B-A   | 149 | FB1L3N-T2B-A      |
| 50 | 2SC1623-T1B-A     | 100 | FA1A4M(O)-T2B-A   | 150 | FN1A3Q-T1B-A      |

## Affected product List (2)

| No  | Product type name | No  | Product type name | No  | Product type name      |
|-----|-------------------|-----|-------------------|-----|------------------------|
| 151 | FN1A3Q-T2B-A      | 201 | GA1L3M-T1-A       | 251 | 2SJ647-T1-A            |
| 152 | FN1A4M(O)-T1B-A   | 202 | GA1L3N-T1-A       | 252 | 2SK1581C-T1B-AT        |
| 153 | FN1A4M(O)-T2B-A   | 203 | GA1L3Z(O)-T1-A    | 253 | 2SK1590C(O)-T1B-A      |
| 154 | FN1A4M-D-T1-A     | 204 | GA1L3Z-T1-A       | 254 | 2SK1590C(O)-T1B-AT     |
| 155 | FN1A4M-D-T2-A     | 205 | GA4A4M-T1-A       | 255 | 2SK1590C-T1B-A         |
| 156 | FN1A4M-T1B-A      | 206 | GA4A4P-T1-A       | 256 | 2SK1590C-T1B-AT        |
| 157 | FN1A4M-T1B-AT     | 207 | GA4L3M-T1-A       | 257 | 2SK3054C(O)-T1-A       |
| 158 | FN1A4M-T2B-A      | 208 | GA4L4K-T1-A       | 258 | 2SK3054C-T1-AT         |
| 159 | FN1A4P-T1B-A      | 209 | GN1A3Q-T1-A       | 259 | 2SK3663(O)-T1-A        |
| 160 | FN1A4P-T2B-A      | 210 | GN1A4M(O)-T2-A    | 260 | 2SK3663-T1-A           |
| 161 | FN1F4M-T1B-A      | 211 | GN1A4M-D-T1-A     | 261 | 2SK4079(1)-T1B-AT      |
| 162 | FN1F4N-T1B-A      | 212 | GN1A4M-T1-A       | 262 | UPA502CT(O)-T1-AT      |
| 163 | FN1L3M-T1B-A      | 213 | GN1A4M-T2-A       | 263 | UPA502CT(O)-T2-A       |
| 164 | FN1L3M-T2B-A      | 214 | GN1A4P-T1-A       | 264 | UPA502CT(O)-T2-AT      |
| 165 | FN1L3N-T1B-A      | 215 | GN1A4Z-T1-A       | 265 | UPA502CT-T1-A          |
| 166 | FN1L3N-T2B-A      | 216 | GN1F4M-T2-A       | 266 | UPA502CT-T1-AT         |
| 167 | FN1L3Z-T1B-A      | 217 | GN1L3M(O)-T1-A    | 267 | UPA503CT(O)-T1-AT      |
| 168 | FN1L3Z-T2B-A      | 218 | GN1L3M-D-T1-A     | 268 | UPA503CT-T1-A          |
| 169 | FN1L4L-T1B-A      | 219 | GN1L3N-T1-A       | 269 | UPA503CT-T1-AT         |
| 170 | FN1L4M(O)-T2B-A   | 220 | GN1L3Z-T1-A       | 270 | UPA573CT-T1-A          |
| 171 | FN1L4M-T1B-A      | 221 | GN1L4L-T1-A       | 271 | UPA573CT-T1-AT         |
| 172 | FN1L4M-T2B-A      | 222 | GN4A3Q-T1-A       | 272 | UPA602CT(O)-T1-AT      |
| 173 | FN4A3Q-T1B-A      | 223 | GN4A4M-T1-A       | 273 | UPA602CT-T1-AT         |
| 174 | FN4A4M-T1B-A      | 224 | GN4L3M-T1-A       | 274 | UPA603CT-T1-A          |
| 175 | FN4A4Z-T1B-AT     | 225 | GN4N2M(O)-T1-AT   | 275 | UPA677TB-T1-A          |
| 176 | FN4F3P-T1B-A      | 226 | UPA504T-T1-A      | 276 | UPA678TB(O)-T1-AT      |
| 177 | FN4F3R-T1B-A      | 227 | UPA509TA-T1-A     | 277 | UPA678TB-T1-A          |
| 178 | FN4F4M-T2B-A      | 228 | UPA600T-T1-A      | 278 | UPA679TB(O)-T1-A       |
| 179 | FN4L3N(O)-T1B-AT  | 229 | UPA601T(O3)-T1-A  | 279 | UPA679TB-T1-A          |
| 180 | FN4L4L-T1B-A      | 230 | UPA601T-T1-A      | 280 | UPA1803GR(1)-9JG-E1-A  |
| 181 | FP1A3M-T1B-A      | 231 | UPA604T(O)-T1-A   | 281 | UPA1803GR-9JG-E1-A     |
| 182 | FP1A3M-T2B-A      | 232 | UPA604T(O)-T1-AT  | 282 | UPA1804GR-9JG-E1-A     |
| 183 | FP1A4A-T1B-A      | 233 | UPA604T-T1-A      | 283 | UPA1809GR-9JG-E1-A     |
| 184 | FP1A4M-T1B-A      | 234 | UPA605T-T1-A      | 284 | UPA1814GR(O)-9JG-E1-A  |
| 185 | FP1F3P-T1B-A      | 235 | UPA609T(O)-T1-A   | 285 | UPA1814GR-9JG-E1-A     |
| 186 | FP1F3P-T2B-A      | 236 | UPA609T(O)-T2-A   | 286 | UPA1815GR(O)-9JG-E1-A  |
| 187 | FP1J3P-T1B-A      | 237 | UPA609T-T1-A      | 287 | UPA1815GR-9JG-E1-A     |
| 188 | FP1L2Q-T1B-A      | 238 | UPA609T-T2-A      | 288 | UPA1855GR-9JG-E1-A     |
| 189 | FP1L2Q-T2B-A      | 239 | UPA670T-T1-A      | 289 | UPA1856GR(O)-9JG-E1-AT |
| 190 | FP1L3N-T1B-A      | 240 | UPA671T-T1-A      | 290 | UPA1856GR-9JG-E1-A     |
| 191 | FP1L3N-T2B-A      | 241 | 2SK1001-T1B-A     | 291 | UPA1857GR-9JG-E1-A     |
| 192 | GA1A3Q-T1-A       | 242 | 2SK520-T1B-A      | 292 | UPA1873GR-9JG-E1-A     |
| 193 | GA1A4M(O)-T2-A    | 243 | 2SJ203C-T1B-A     | 293 | UPA1890GR(O)-9JG-E2-A  |
| 194 | GA1A4M-D-T1-A     | 244 | 2SJ203C-T1B-AT    | 294 | UPA1890GR-9JG-E1-A     |
| 195 | GA1A4M-T1-A       | 245 | 2SJ210C(O)-T1B-A  |     |                        |
| 196 | GA1A4M-T2-A       | 246 | 2SJ210C(O)-T1B-AT |     |                        |
| 197 | GA1A4P-T1-A       | 247 | 2SJ210C-T1B-A     |     |                        |
| 198 | GA1A4P-T2-A       | 248 | 2SJ210C-T1B-AT    |     |                        |
| 199 | GA1F4M-T1-A       | 249 | 2SJ647M(91)-T1-A  |     |                        |
| 200 | GA1L3M-D-T1-A     | 250 | 2SJ647M-T1-A      |     |                        |