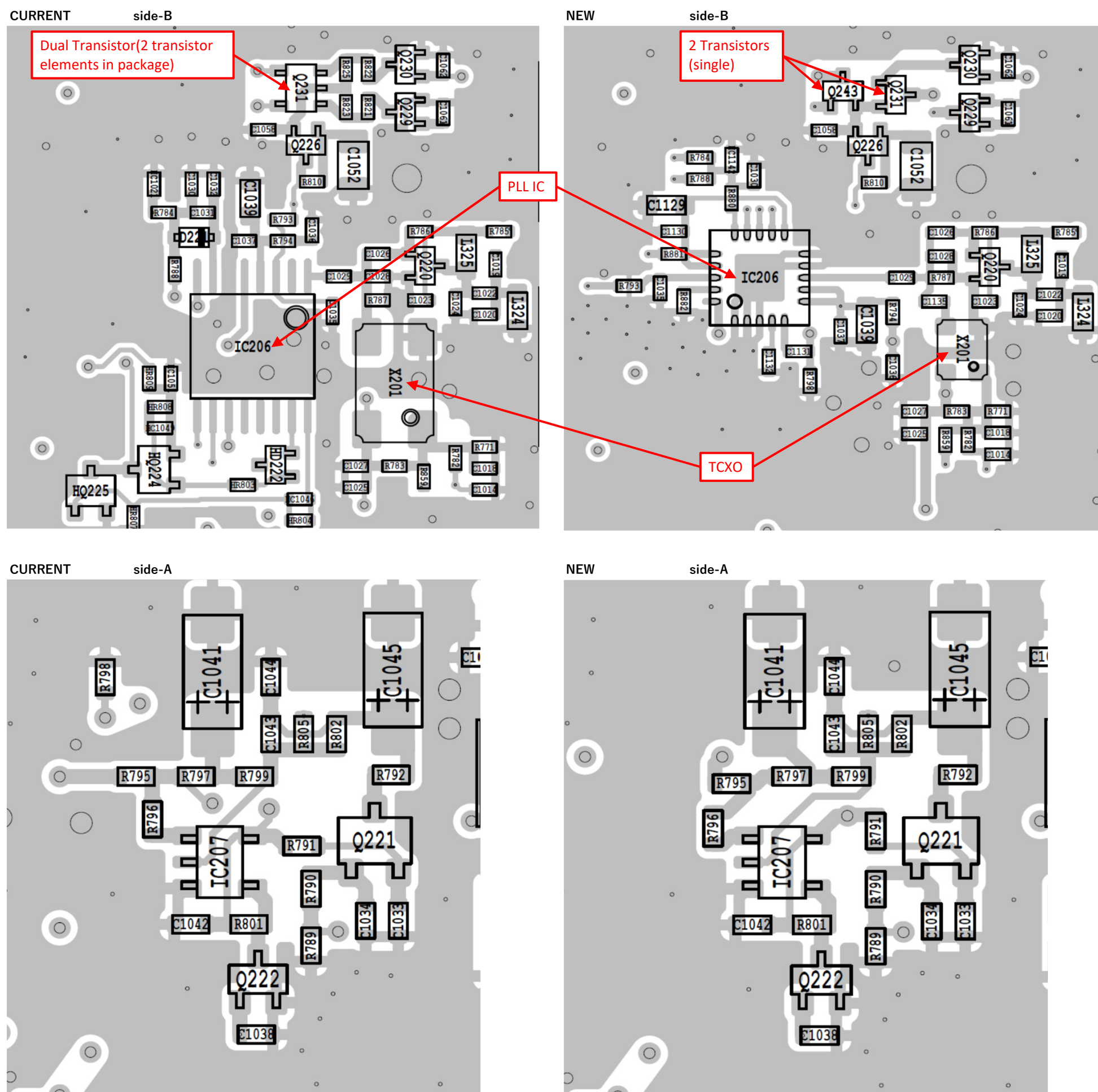


## 1. RVC0 PLL and TCXO Circuit change

Comment : Replacement of the discontinued PLL IC(IC206).

Replacement of the discontinued TCXO(X201).

Replacement of the discontinued Dual Transistor(Q231, 2 transistor elements in package) to 2 Transistors(single, Q231, Q243).



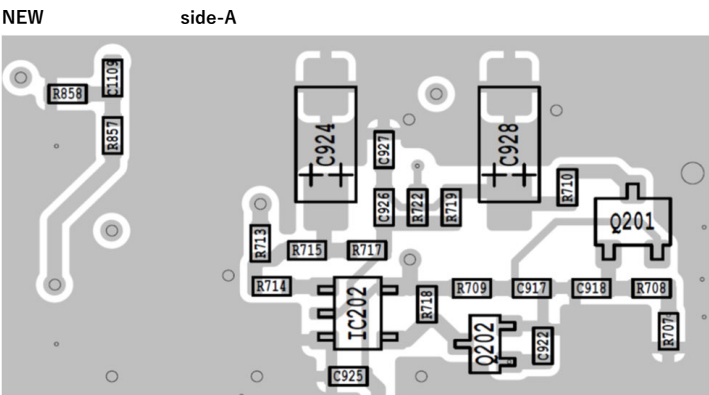
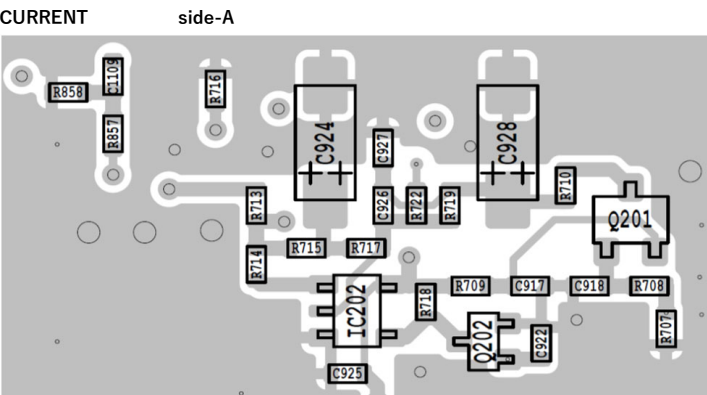
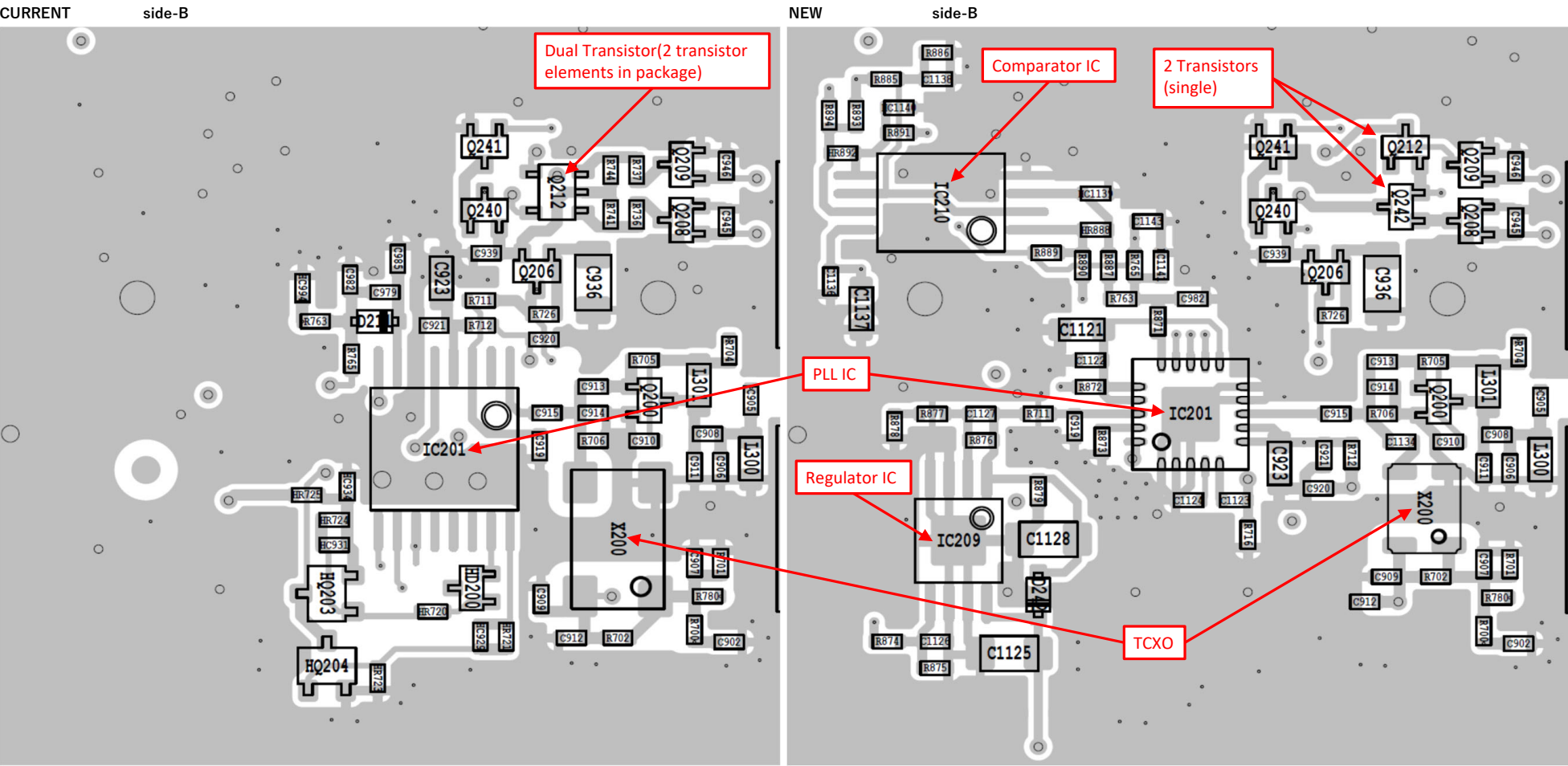
1. RVCO PLL and TCXO Circuit change

Parts List

| CURRENT |                        | NEW   |                   |
|---------|------------------------|-------|-------------------|
| Ref     | Parts name             | Ref   | Parts name        |
| C1019   | 3P C1005 CH B          | C1019 | 3P 0402-RF C0G B  |
| C1022   | 4P C1005 CH B          | C1022 | 4P 0402-RF C0G B  |
| C1026   | 10P 0402 C0G C         | C1026 | 10P 0402-RF C0G G |
| C1028   | 10P 0402 C0G C         | C1028 | 10P 0402-RF C0G G |
| C1030   | 0.1 0402 10V X7R K     | C1030 | 1 CL05 16V X5R K  |
| C1031   | 47P 0402 C0G J         |       |                   |
| C1032   | 470P 0402 X7R K        |       |                   |
| C1039   | 0.22 C1608 10V B       | C1039 | 1 CL10 25V X7R K  |
| C1041   | 0.22 35V F92 M A       | C1041 | 0.22 35V 267M M A |
| C1045   | 2.2 16V F93 M A        | C1045 | 2.2 16V 267E M A  |
| C1052   | 10 GRM21B 16V B        | C1052 | 10 CL21 25V X5R K |
|         |                        | C1129 | 1 CL10 25V X7R K  |
|         |                        | C1130 | 470P 0402 X7R K   |
|         |                        | C1131 | 0.001 0402 X7R K  |
|         |                        | C1132 | 100P 0402 C0G J   |
|         |                        | C1135 | 0.001 0402 X7R K  |
| D221    | L1SS400                |       |                   |
| IC206   | MB15A02PFV1-G-BND-ERE1 | IC206 | ADF4110BCPZ       |
| Q222    | LDTC144EE              | Q222  | DTC144EE          |
| Q229    | LDTC144EE              | Q229  | DTC144EE          |
| Q230    | LDTC144EE              | Q230  | DTC144EE          |
| Q231    | DMA501010              | Q231  | DTA014EEB         |
|         |                        | Q243  | DTA014EEB         |
| R771    | 820K RMC1/16S-J        | R771  | 1M RMC1/16S-J     |
| R783    | 1M RMC1/16S-J          | R783  | 680K RMC1/16S-J   |
| R784    | 10K RMC1/16S-J         | R784  | 100 RMC1/16S-J    |
| R788    | 22K RMC1/16S-J         | R788  | 10K RMC1/16S-J    |
| R798    | 2.2M RMC1/16S-J        | R798  | 47 RMC1/16S-J     |
| R821    | 1K RMC1/16S-J          |       |                   |
| R822    | 1K RMC1/16S-J          |       |                   |
| R823    | 47K RMC1/16S-J         |       |                   |
| R825    | 47K RMC1/16S-J         |       |                   |
|         |                        | R880  | 1.2K RMC1/16S-J   |
|         |                        | R881  | 100 RMC1/16S-J    |
|         |                        | R882  | 3.9K RR0510       |
| X201    | CR-875A                | X201  | CR-996A           |

2. LVCO PLL and TCXO Circuit change

- Comment : Replacement of the discontinued PLL IC(IC201).
- Replacement of the discontinued TCXO(X200).
- Added the Regulator IC(IC209) for PLL IC(IC201) charge pump power supply .
- Added the Comparator IC(IC210) used to detect PLL locked.
- Replacement of the discontinued Dual Transistor(Q212, 2 transistor elements in package) to 2 Transistors(single, Q212, Q242).



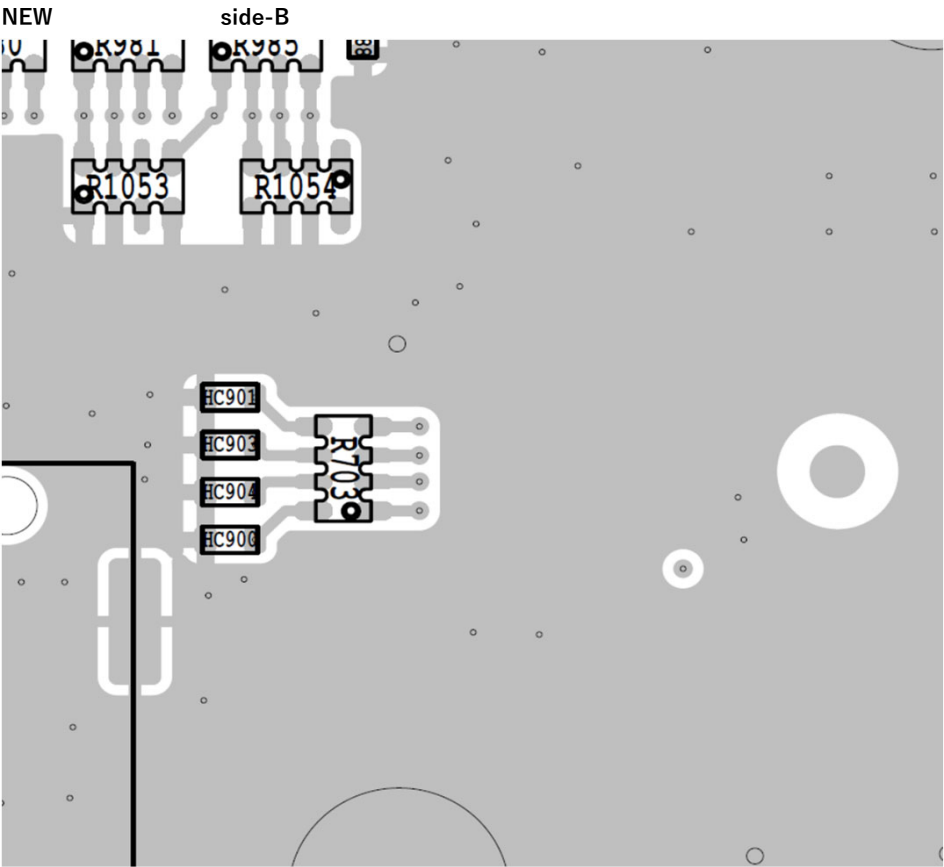
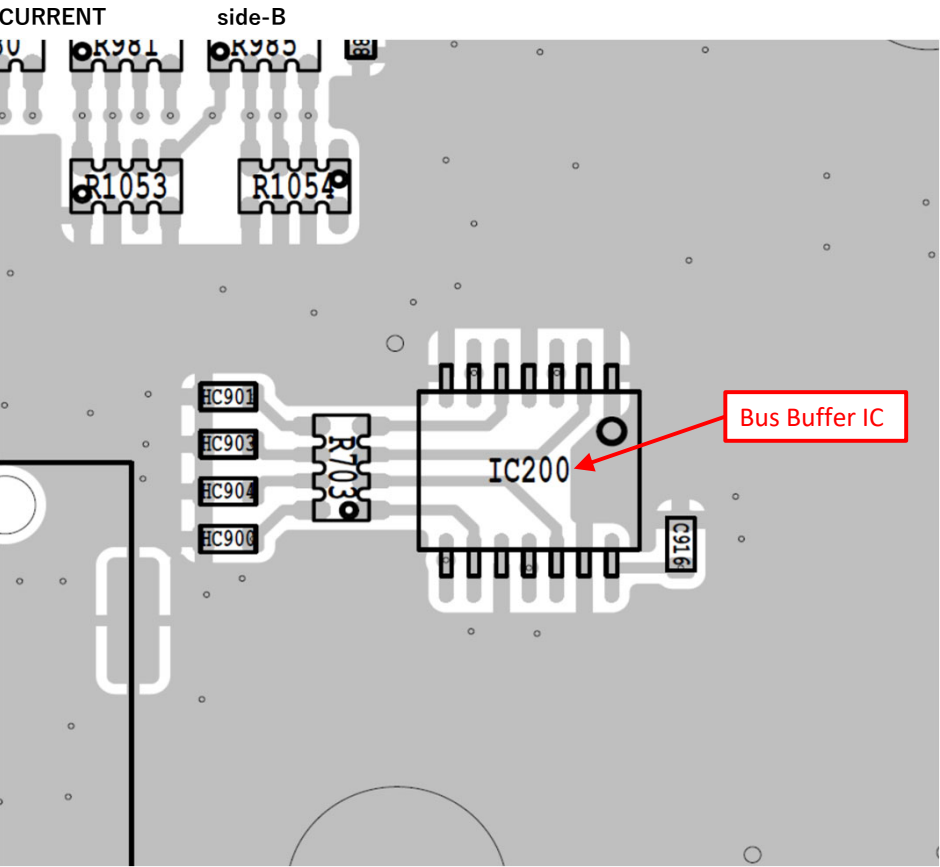
2. LVCO PLL and TCXO Circuit change

Parts List

| CURRENT |                        | NEW   |                     |
|---------|------------------------|-------|---------------------|
| Ref     | Parts name             | Ref   | Parts name          |
| C905    | 3P C1005 CH B          | C905  | 3P 0402-RF C0G B    |
| C908    | 4P C1005 CH B          | C908  | 4P 0402-RF C0G B    |
| C913    | 10P 0402 C0G C         | C913  | 10P 0402-RF C0G G   |
| C914    | 10P 0402 C0G C         | C914  | 10P 0402-RF C0G G   |
| C923    | 0.22 C1608 10V B       | C923  | 1 CL10 25V X7R K    |
| C924    | 0.22 35V F92 M A       | C924  | 0.22 35V 267M M A   |
| C928    | 2.2 16V F93 M A        | C928  | 2.2 16V 267E M A    |
| C936    | 10 GRM21B 16V B        | C936  | 10 CL21 25V X5R K   |
| C979    | 47P 0402 C0G J         |       |                     |
| C982    | 0.1 0402 10V X7R K     | C982  | 1 CL05 16V X5R K    |
| C985    | 470P 0402 X7R K        |       |                     |
|         |                        | C1121 | 1 CL10 25V X7R K    |
|         |                        | C1122 | 470P 0402 X7R K     |
|         |                        | C1123 | 0.001 0402 X7R K    |
|         |                        | C1124 | 100P 0402 C0G J     |
|         |                        | C1125 | 10 GRM21B 16V B     |
|         |                        | C1126 | 0.001 0402 X7R K    |
|         |                        | C1127 | 0.01 0402 25V X7R K |
|         |                        | C1128 | 10 GRM21B 16V B     |
|         |                        | C1134 | 0.001 0402 X7R K    |
|         |                        | C1136 | 0.001 0402 X7R K    |
|         |                        | C1137 | 0.1 0603 25V X7R K  |
|         |                        | C1138 | 0.1 0402 10V X7R K  |
|         |                        | C1143 | 0.001 0402 X7R K    |
| D211    | L1SS400                |       |                     |
|         |                        | D242  | 1SS400 <JSCJ>       |
| IC201   | MB15A02PFV1-G-BND-ERE1 | IC201 | ADF4110BCPZ         |
|         |                        | IC209 | TPS7A4101DGNR       |
|         |                        | IC210 | NJM2903V            |
| Q202    | LDTC144EE              | Q202  | DTC144EE            |
| Q208    | LDTC144EE              | Q208  | DTC144EE            |
| Q209    | LDTC144EE              | Q209  | DTC144EE            |
| Q212    | DMA501010              | Q212  | DTA014EEB           |
| Q241    | LDTC144EE              | Q241  | DTC144EE            |
|         |                        | Q242  | DTA014EEB           |
| R701    | 680K RMC1/16S-J        | R701  | 1M RMC1/16S-J       |
| R702    | 1.5M RMC1/16S-J        | R702  | 680K RMC1/16S-J     |
| R716    | 2.2M RMC1/16S-J        | R716  | 47 RMC1/16S-J       |
| R736    | 1K RMC1/16S-J          |       |                     |
| R737    | 1K RMC1/16S-J          |       |                     |
| R741    | 47K RMC1/16S-J         |       |                     |
| R744    | 47K RMC1/16S-J         |       |                     |
| R763    | 10K RMC1/16S-J         | R763  | 100 RMC1/16S-J      |
| R765    | 22K RMC1/16S-J         | R765  | 10K RMC1/16S-J      |
| R780    | 10K RMC1/16S-J         | R780  | 33K RMC1/16S-J      |
|         |                        | R871  | 1.2K RMC1/16S-J     |
|         |                        | R872  | 100 RMC1/16S-J      |
|         |                        | R873  | 3.9K RR0510         |
|         |                        | R874  | 1K RMC1/16S-J       |
|         |                        | R875  | 22K RMC1/16S-J      |
|         |                        | R876  | 39K RR0510          |
|         |                        | R877  | 8.2K RR0510         |
|         |                        | R878  | 1.5K RR0510         |
|         |                        | R879  | 1.8K RMC1/16S-J     |
|         |                        | R885  | 10K RMC1/16S-J      |
|         |                        | R886  | 33K RMC1/16S-J      |
|         |                        | R887  | RMC1/16S-JPW        |
|         |                        | R889  | 22K RMC1/16S-J      |
|         |                        | R890  | 100 RMC1/16S-J      |
|         |                        | R891  | RMC1/16S-JPW        |
|         |                        | R893  | 22K RMC1/16S-J      |
|         |                        | R894  | 100 RMC1/16S-J      |
| X200    | CR-833A                | X200  | CR-994-1            |

### 3. Bus Buffer Circuit change

Comment : Removal of the Bus Buffer IC(IC200) due to replacement of the discontinued PLL ICs(IC201, IC206).



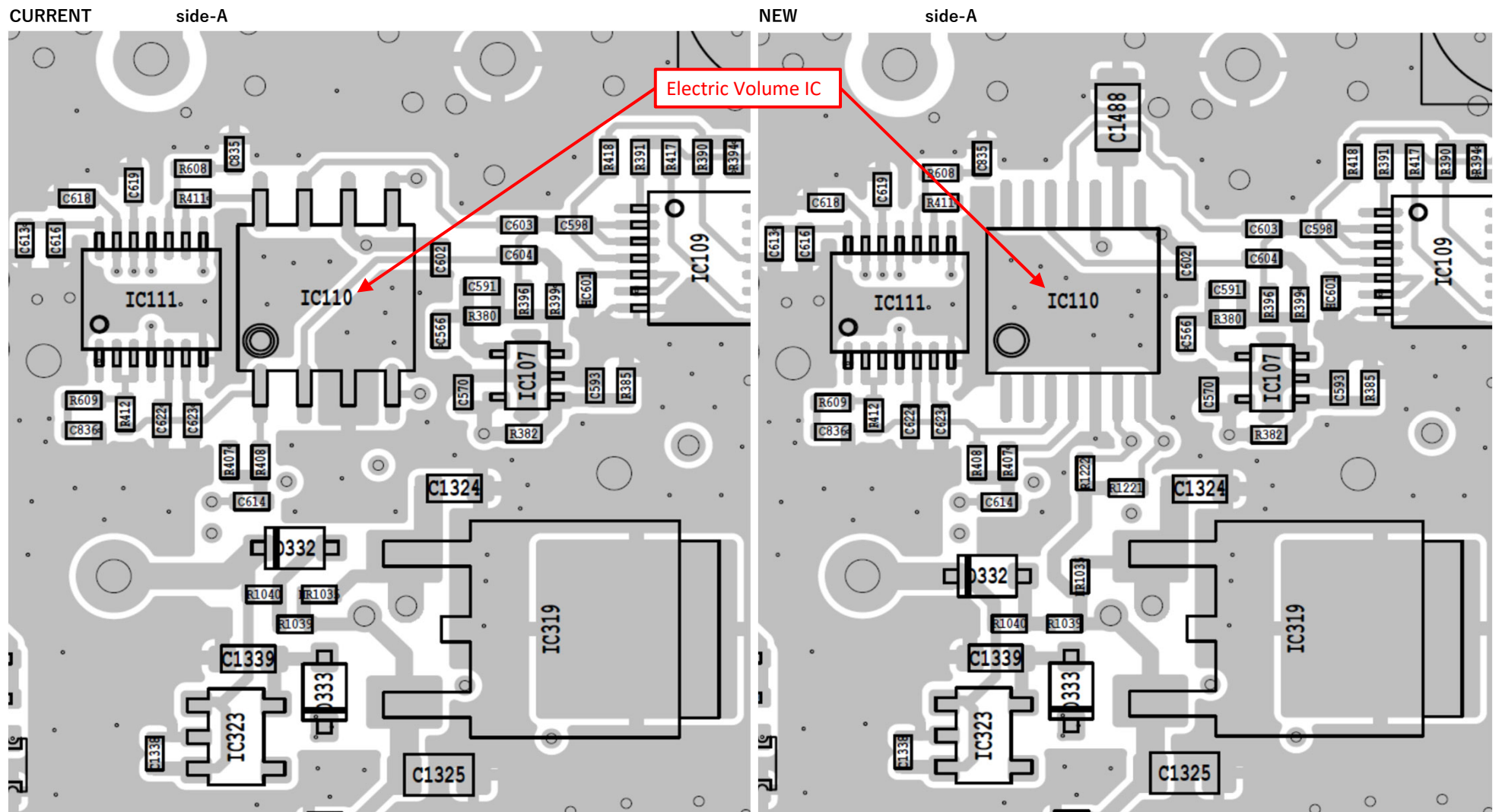
### 3. Bus Buffer Circuit change

Parts List

| CURRENT |                    | NEW |            |
|---------|--------------------|-----|------------|
| Ref     | Parts name         | Ref | Parts name |
| C916    | 0.1 0402 10V X7R K |     |            |
| IC200   | TC74VHCT125AFK     |     |            |

#### 4. Electric Volume Circuit change

Comment : Replacement of the discontinued Electric Volume IC(IC110).



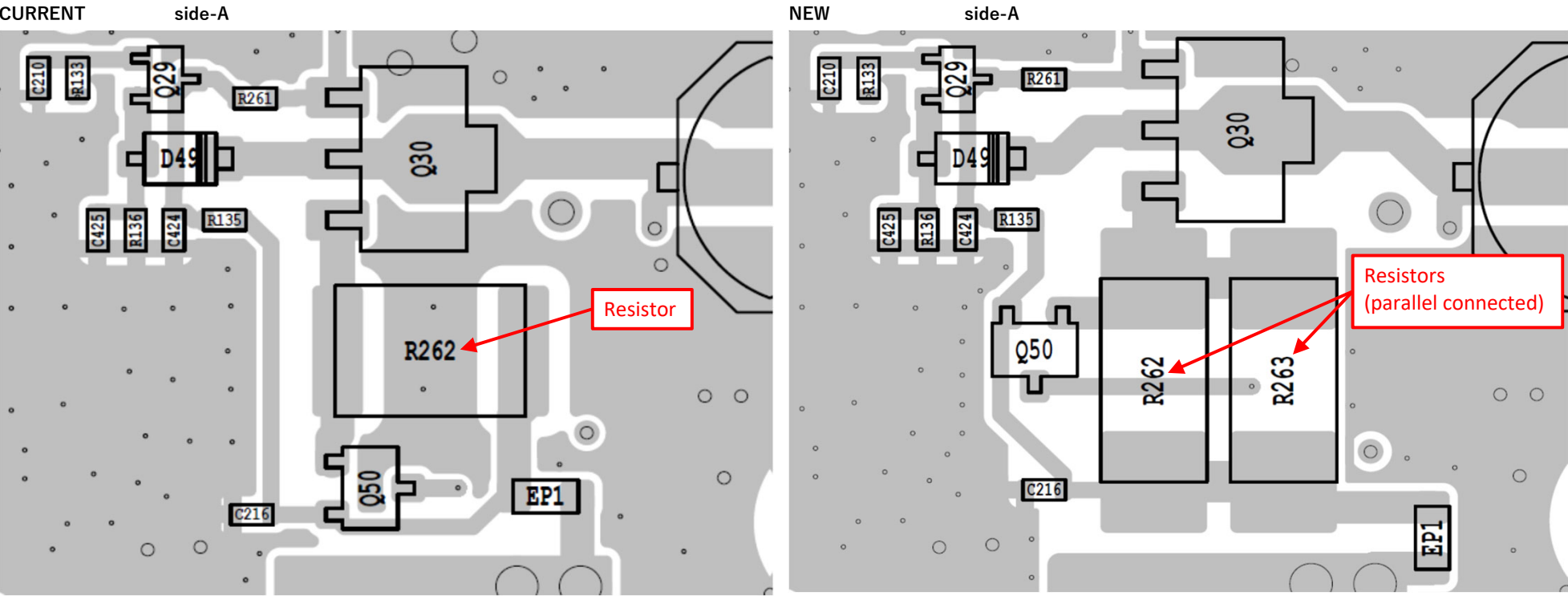
## 4. Electric Volume Circuit change

Parts List

| CURRENT |            | NEW   |                 |
|---------|------------|-------|-----------------|
| Ref     | Parts name | Ref   | Parts name      |
|         |            | C1488 | 10 GRM21B 16V B |
| IC110   | M61545AFP  | IC110 | NJU72341V-TE2   |
|         |            | R1221 | 100K RMC1/16S-J |
|         |            | R1222 | 4.7K RMC1/16S-J |

## 5. FAN Control Circuit change

Comment : Replacement of the discontinued Resistor(CURRENT(R262), NEW(R262, R263)).



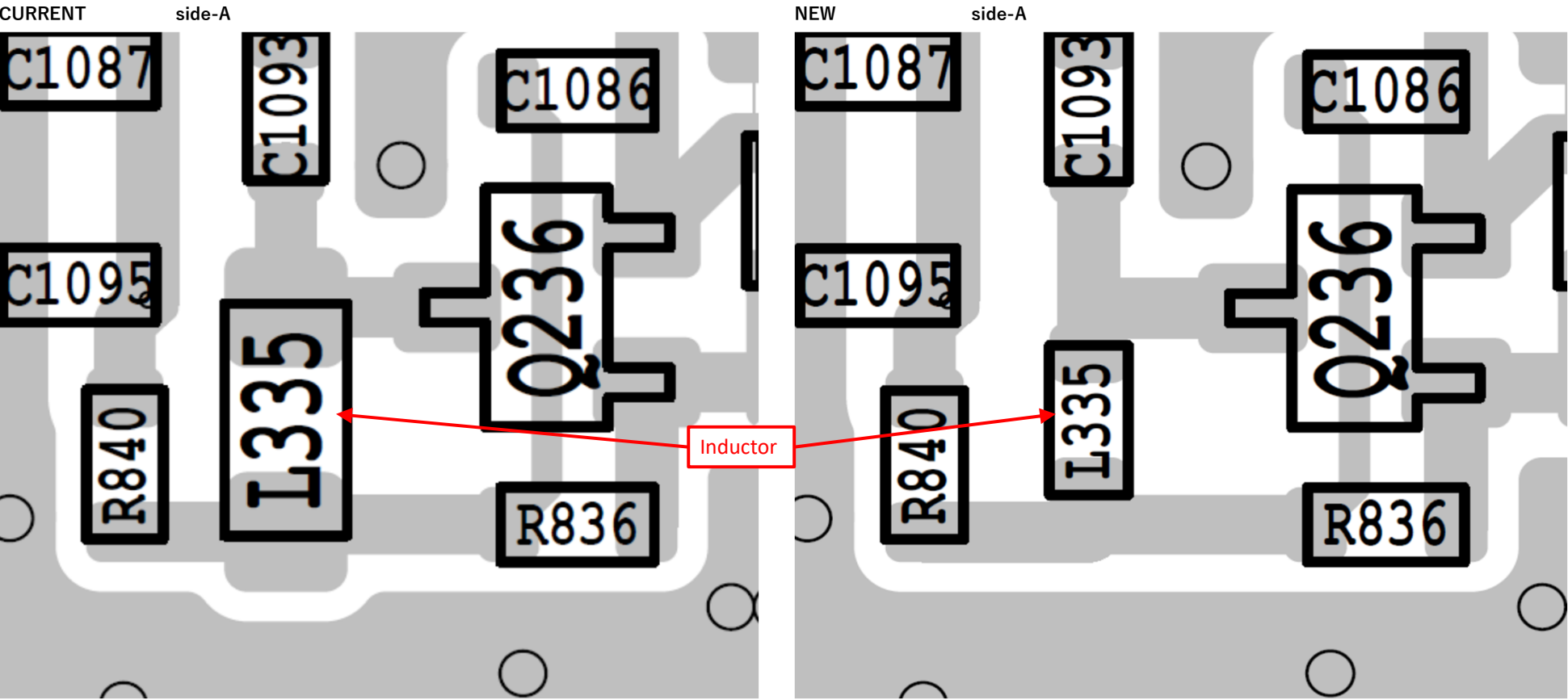
## 5. FAN Control Circuit change

Parts List

| CURRENT |            | NEW  |              |
|---------|------------|------|--------------|
| Ref     | Parts name | Ref  | Parts name   |
| R262    | 1.5 ERJ12  | R262 | 3.3 RMC1/2-J |
|         |            | R263 | 3.3 RMC1/2-J |

## 6. RVCO Buffer Circuit change

Comment : Replacement of the discontinued Inductor(L335).



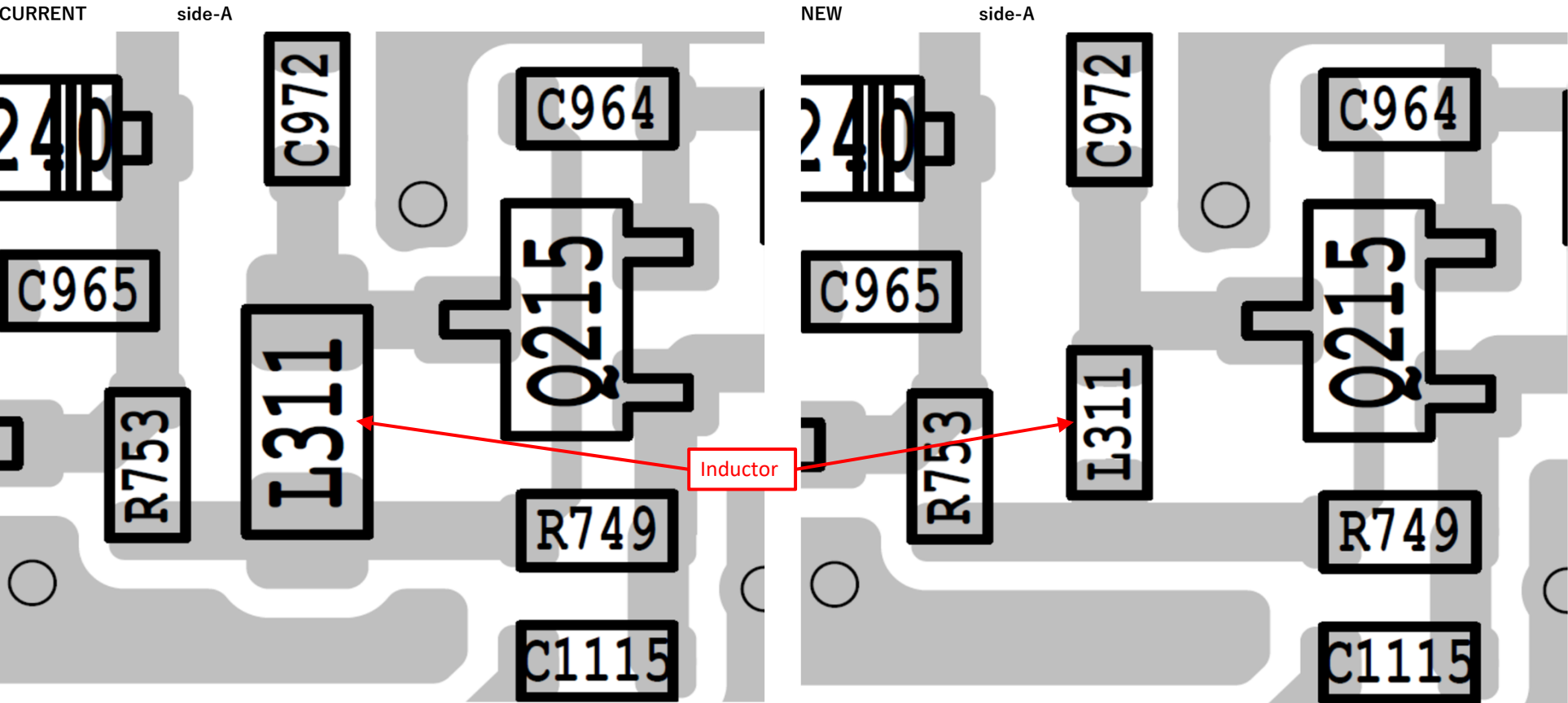
## 6. RVCO Buffer Circuit change

Parts List

| CURRENT |                    | NEW  |                      |
|---------|--------------------|------|----------------------|
| Ref     | Parts name         | Ref  | Parts name           |
| L335    | ELJRE R15JFA 0.15U | L335 | MLK1005S R22JT 0.22U |

7. LVCO Buffer Circuit change

Comment : Replacement of the discontinued Inductor(L311).



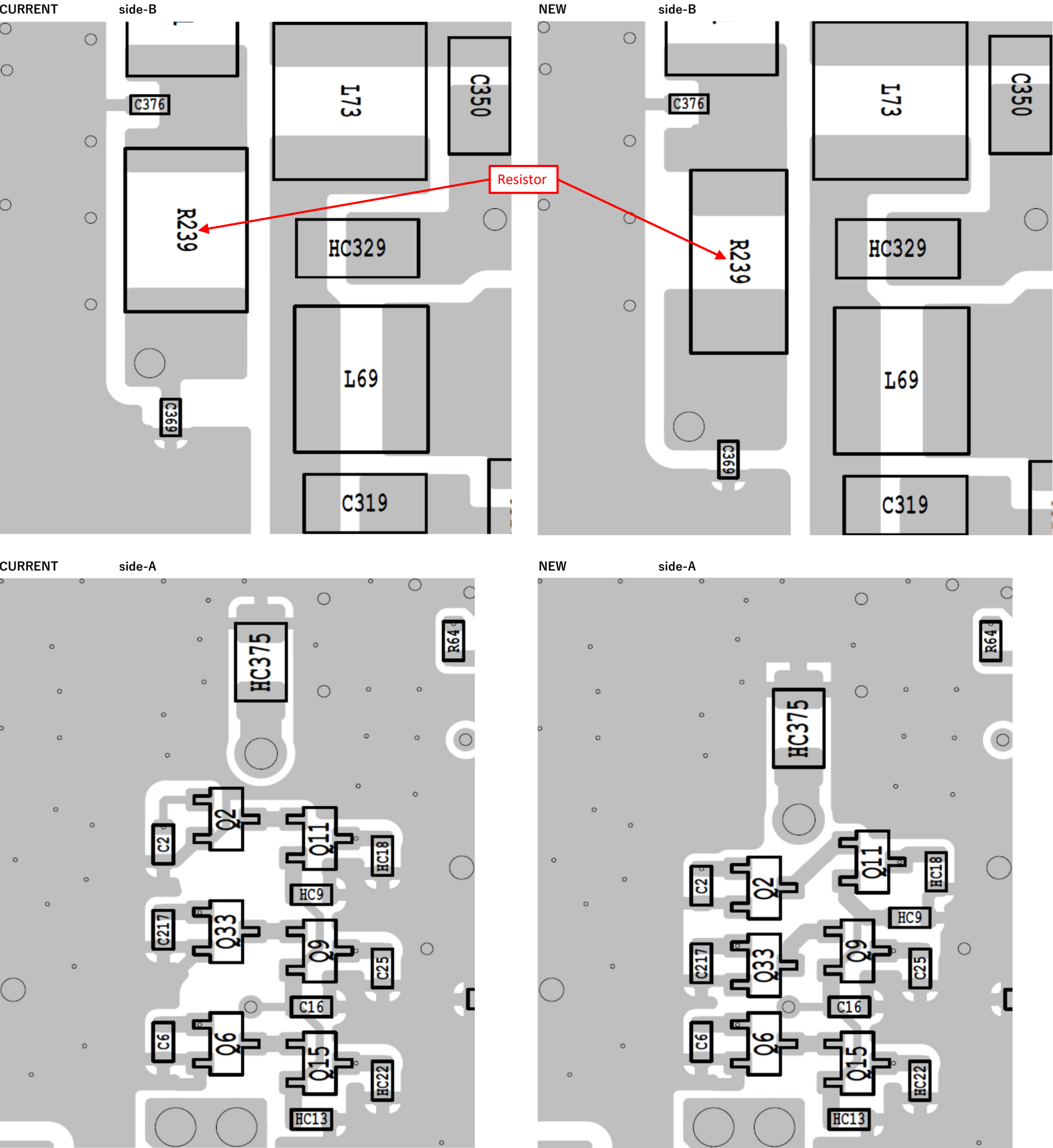
## 7. LVCO Buffer Circuit change

Parts List

| CURRENT |                    | NEW  |                      |
|---------|--------------------|------|----------------------|
| Ref     | Parts name         | Ref  | Parts name           |
| L311    | ELJRE R22GFA 0.22U | L311 | MLK1005S R22JT 0.22U |

## 8. UHF TX/RX Switch Circuit change

Comment : Replacement of the discontinued Resistor(R239).



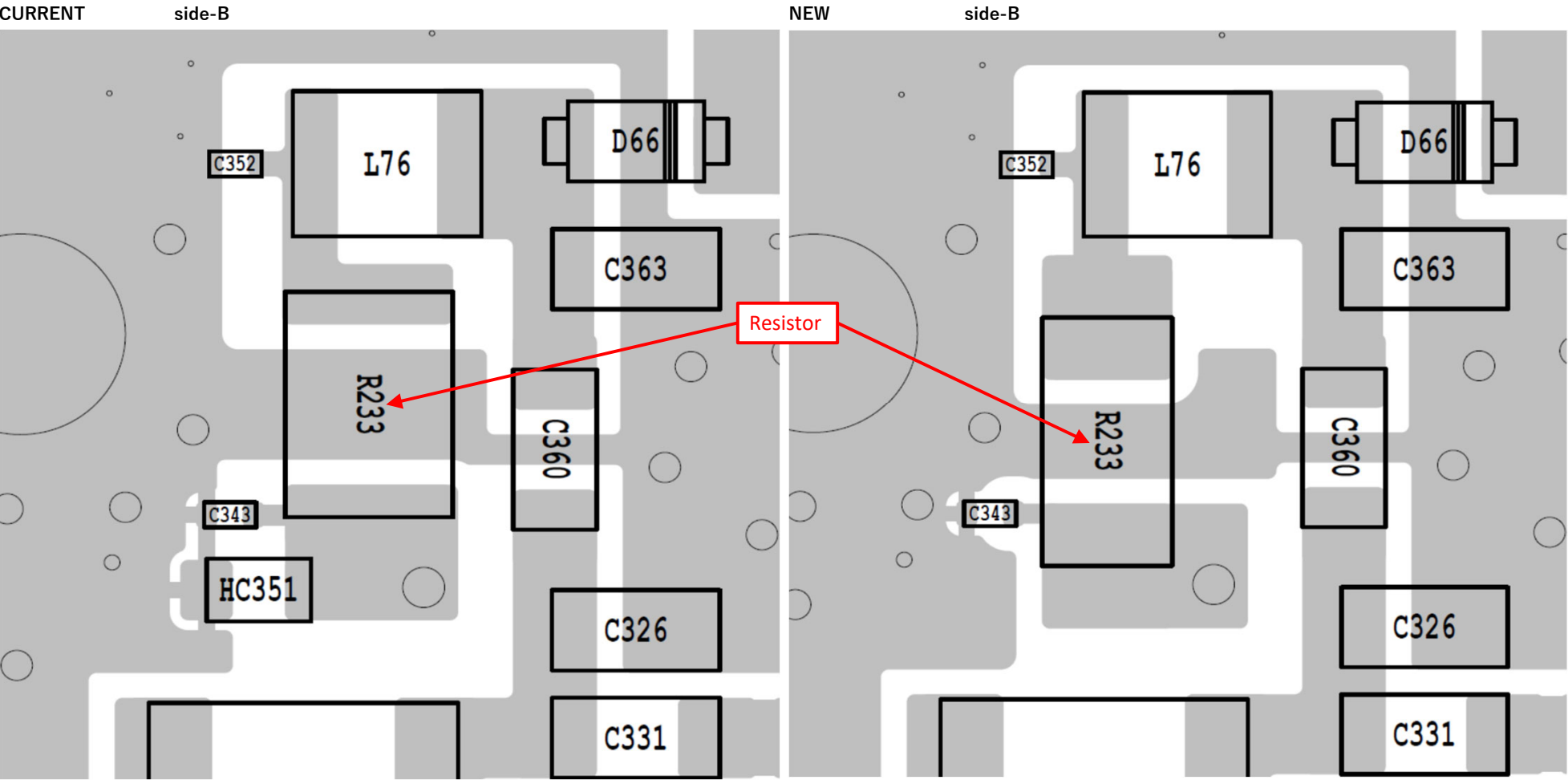
## 8. UHF TX/RX Swich Circuit change

Parts List

| CURRENT |            | NEW  |              |
|---------|------------|------|--------------|
| Ref     | Parts name | Ref  | Parts name   |
| R239    | 100 ERJ12  | R239 | 100 RMC1/2-J |

### 9. VHF TX/RX Switch Circuit change

Comment : Replacement of the discontinued Resistor(R233).



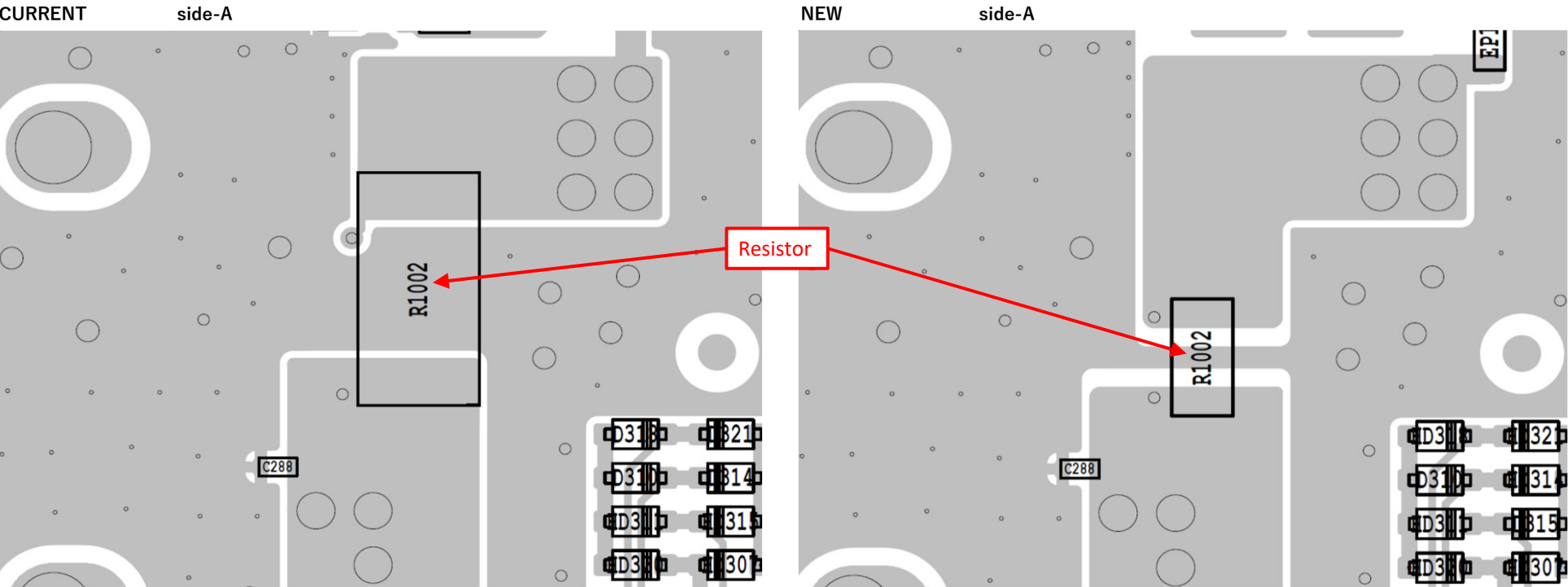
## 9. VHF TX/RX Swich Circuit change

Parts List

| CURRENT |            | NEW  |              |
|---------|------------|------|--------------|
| Ref     | Parts name | Ref  | Parts name   |
| R233    | 100 ERJ12  | R233 | 100 RMC1/2-J |

# 10. Current Detection Circuit change

Comment : Replacement of the discontinued Resistor(R1002).



# 10. Current Detection Circuit change

Parts List

| CURRENT |                | NEW   |                |
|---------|----------------|-------|----------------|
| Ref     | Parts name     | Ref   | Parts name     |
| R1002   | 0.003 ERJM1WSF | R1002 | 0.003 TLR2BW F |