

2021/02/22
Initial by Carl.

2021/03/08
1. Adding R85-R87, C75-C78, Q13 for analog MIC mute switch design.
2. Adding SW4 for Side-Tone on/off function on HX series headset.
2. Remove ED7 for analog MIC mute switch design.
3. R58 change to NC and L10 change to SMT for correcting design.

2021/03/15
1. Modify MIC Mute function circuit. Using AV6302's SPI slave PIN for normal GPIO function.
2. USB soft-start circuit change to SMT from NC for lower USB test fail rick.
3. C52 change to 10V tolerance.
4. R51 change to NC from SMT for design correction.
5. Change ED1-ED3 to AZ-5A75-01F for better ESD protceion.
6. Modify USB trace D9_CHG_DM/D9_CHG_DP for better USB eye-diagram SI.
7. Adding C79, C80 for lower power noise.
8. Change R66, R67 from 0ohm to 33ohm for better USB eye-diagram SI.
9. Adding C81 for better power noise.
10. Adding MIC monitoring design on R37-R39, replace SPI slave function for the MIC monitoring function on HX.
11. Adding battery status check on R40.
12. Change L12 to 470ohm bead for better EMI testing.
13. Modify ED6, ED19 after aoldering PAD for better ESD protection.
14. Remove ED12-ED14 refer to RIG700's design.


2021/03/24
1. C44 change to SMT from NC by Skyworks's suggestion. It will reduce power noise by this capacitor.

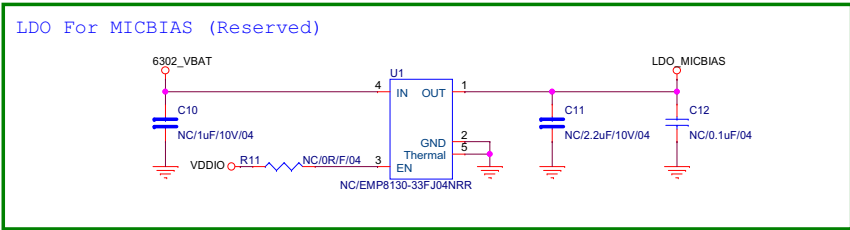
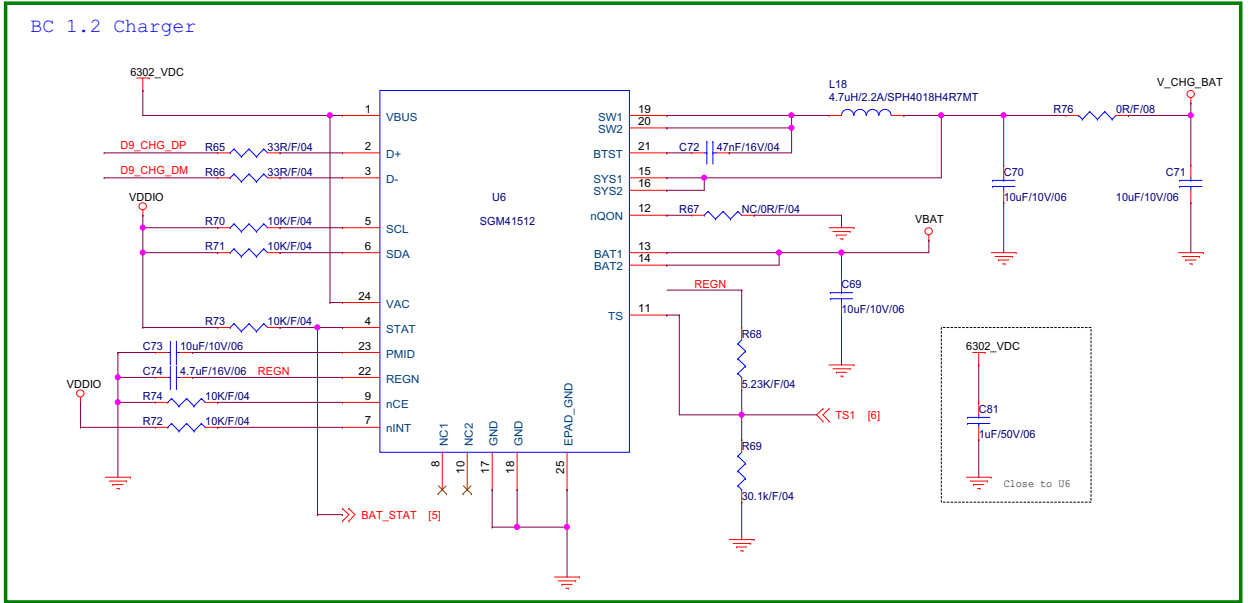
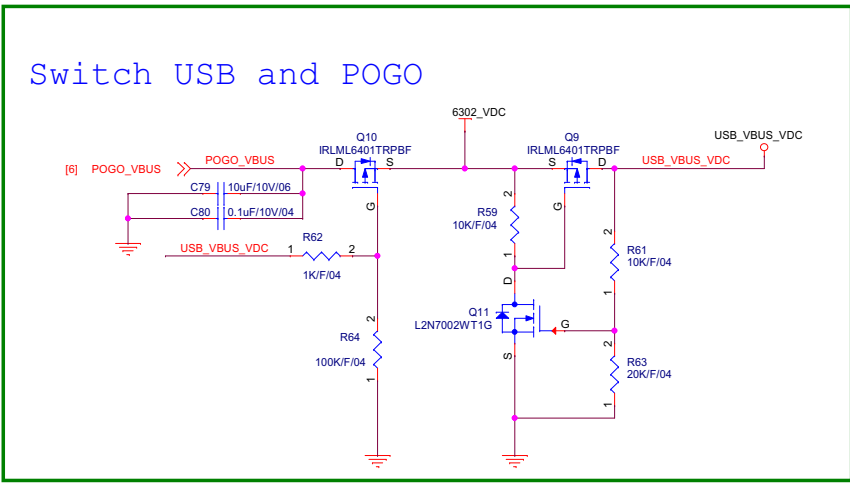
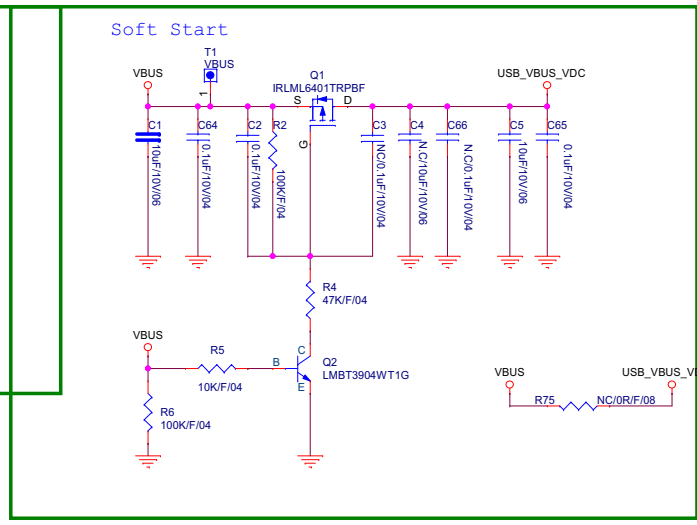
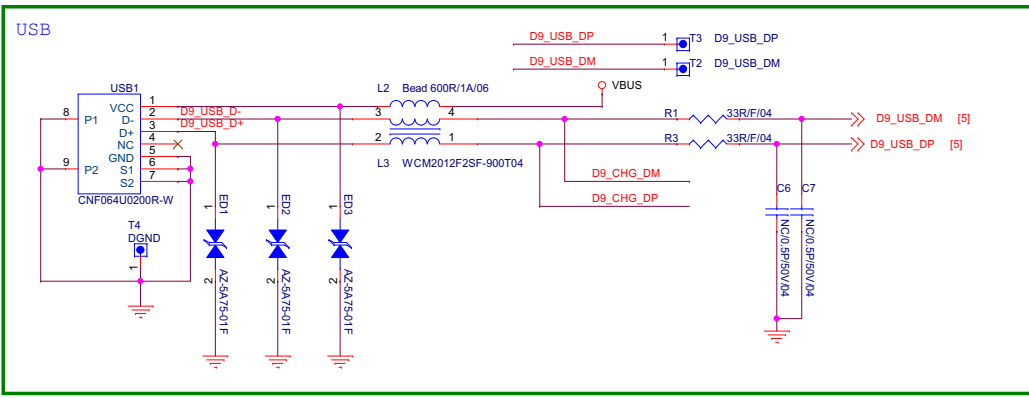
2021/04/06
1. Modify R41,R43,R83 value for safty certification of battery discharge.
2. Adding TS2 soldering PAD for connecting the NTC from right battery board.
3. Adding R90, R91 (reserved) for anti-pop noise solution.

2021/05/04
1. Remove R77, R81 to avoid voltage drop.
2. Reserve L2 for EMI debug solution.

2021/08/05
1.Update Rev D for Mechanical Request.

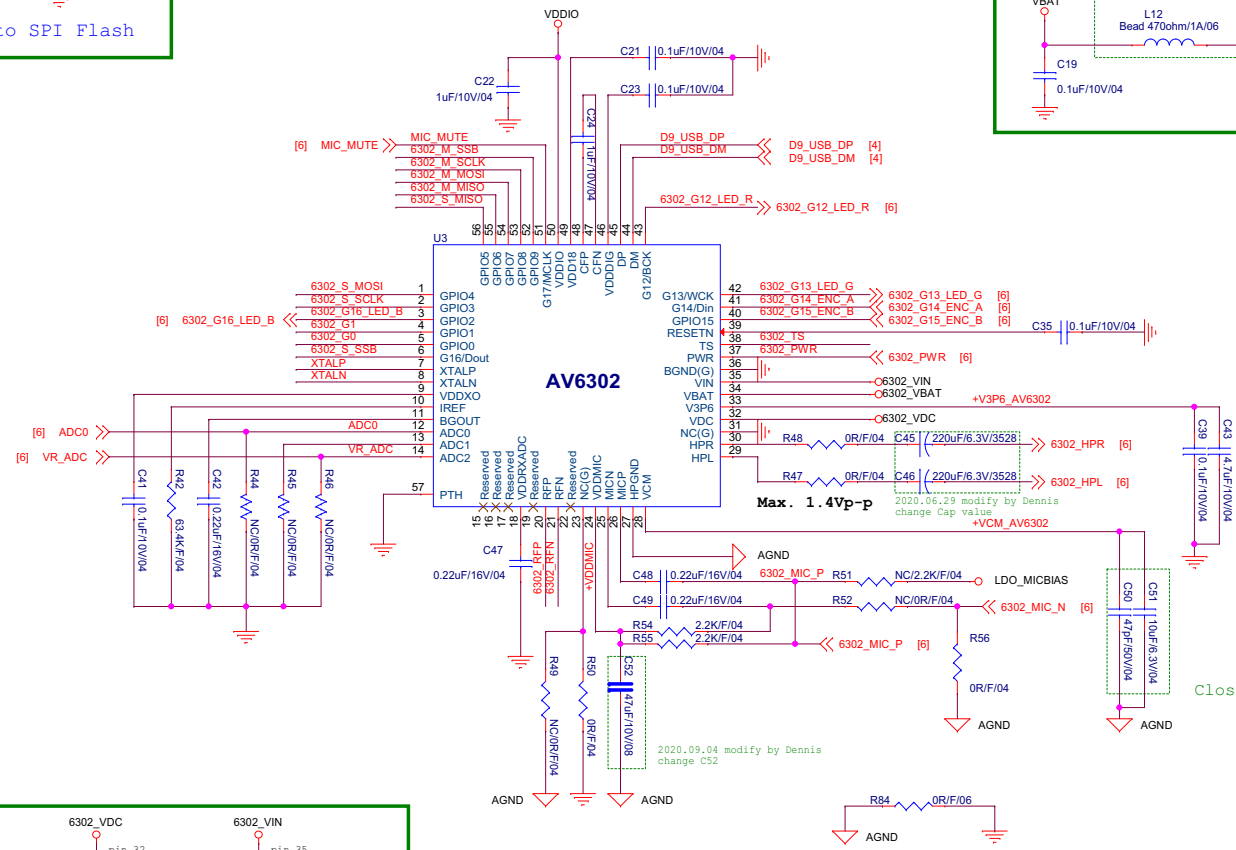
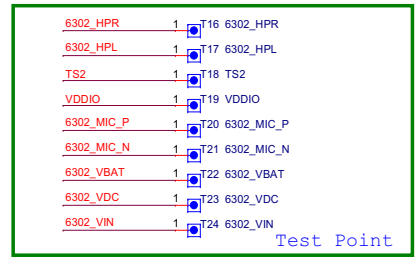
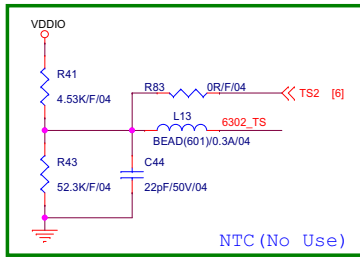
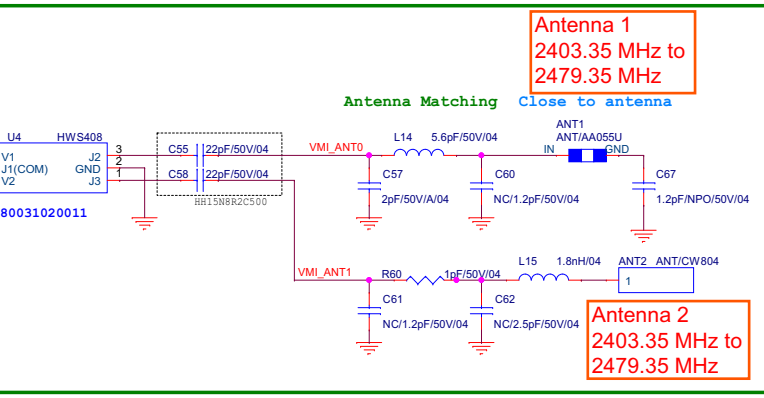
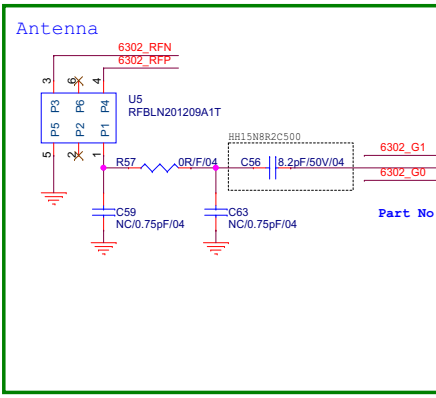
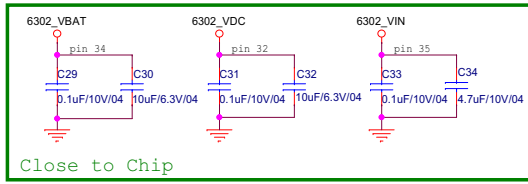
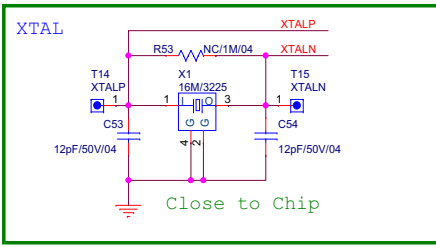
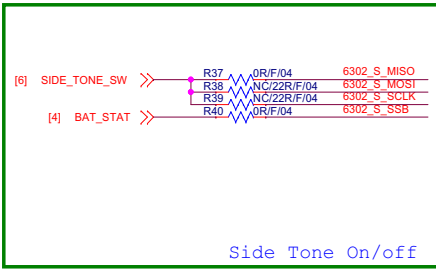
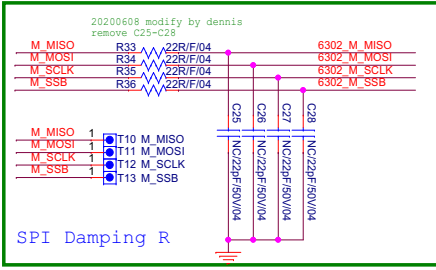
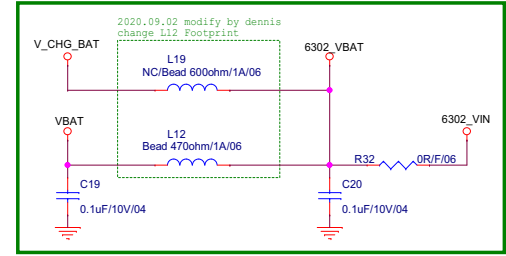
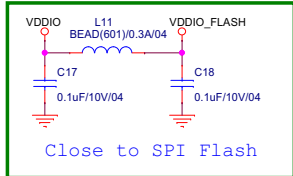
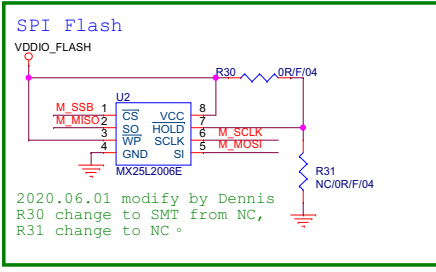
2021/08/19
1.Add L2 for EMI solution.
2. modify gerber from factory request.

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| Eddie | Carl | Boyce | Project Number RIG800 Pro_RX_MAIN | | |
| | | | Size C | Title History | Rev D |
| | | | Date: Monday, August 23, 2021 | Sheet 1 of 6 | |



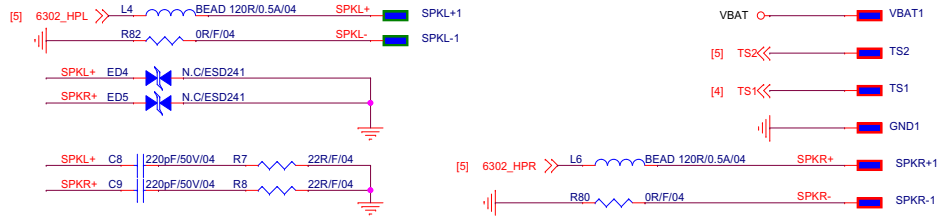
< 0 degree C and > 60 degree C : Stop charging
 0 degree C ~ 10 degree C : Icc=0.2 or Icc=0.5, according RE005 D[0] setting, 0.75A or 0.3A in your case
 10 degree C ~ 45 degree C : Icc, 1.5A in your case
 45 degree C ~ 60 degree C : maximum Vout = CV-0.1V

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| | | | RIG800 Pro_RX_MAIN | |
| | | | Size | Rev D |
| | | | C Power | |
| | | | Date: Monday, August 23, 2021 | Sheet 4 of 6 |

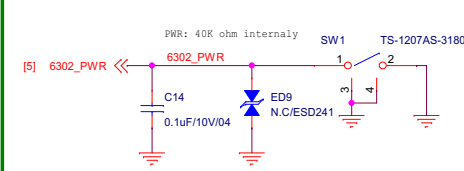


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| | | | RIG800 Pro_RX_MAIN | |
| | | | Size | Rev |
| | | | C AV6302 | |
| | | | Date: Wednesday, August 04, 2021 | Sheet 5 of 6 |

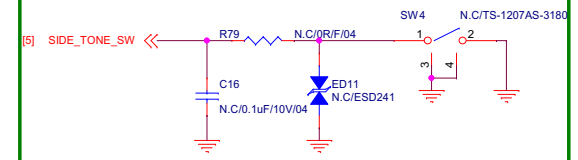
Soldering PAD



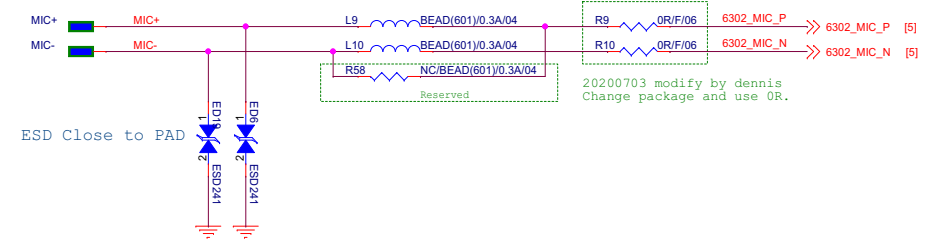
POWER/PAIRING KEY



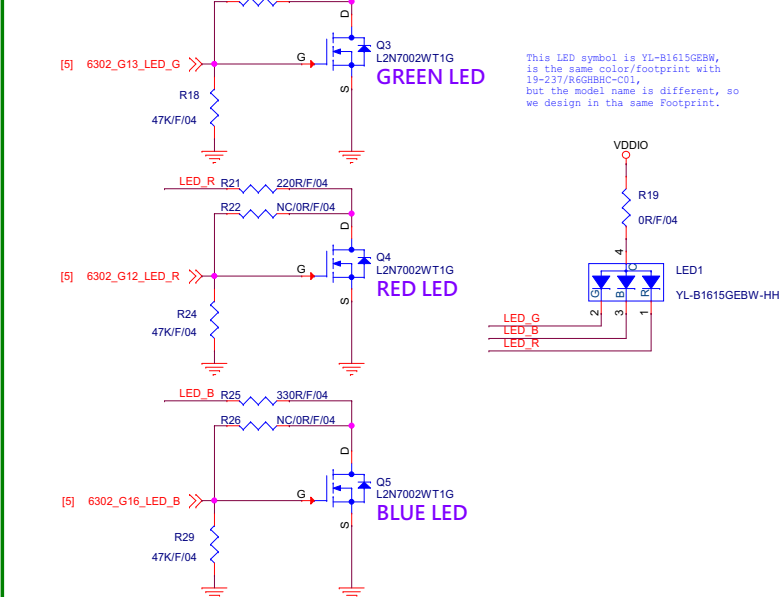
Side Tone on/off Key



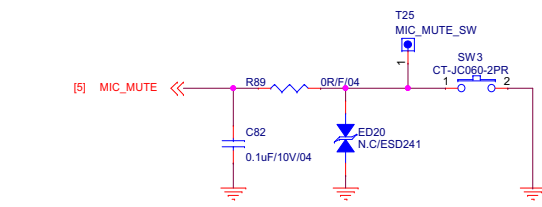
MIC



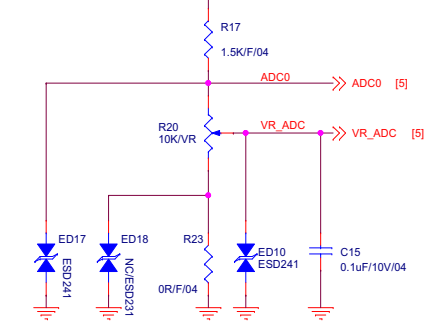
LED



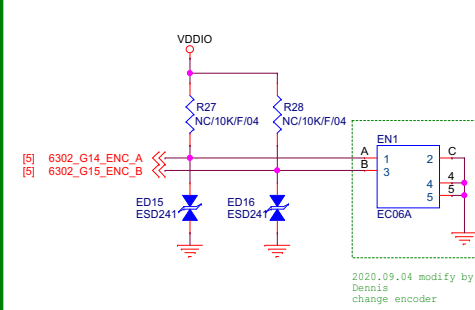
MIC Mute on/off Key



GAME/CHAT VR



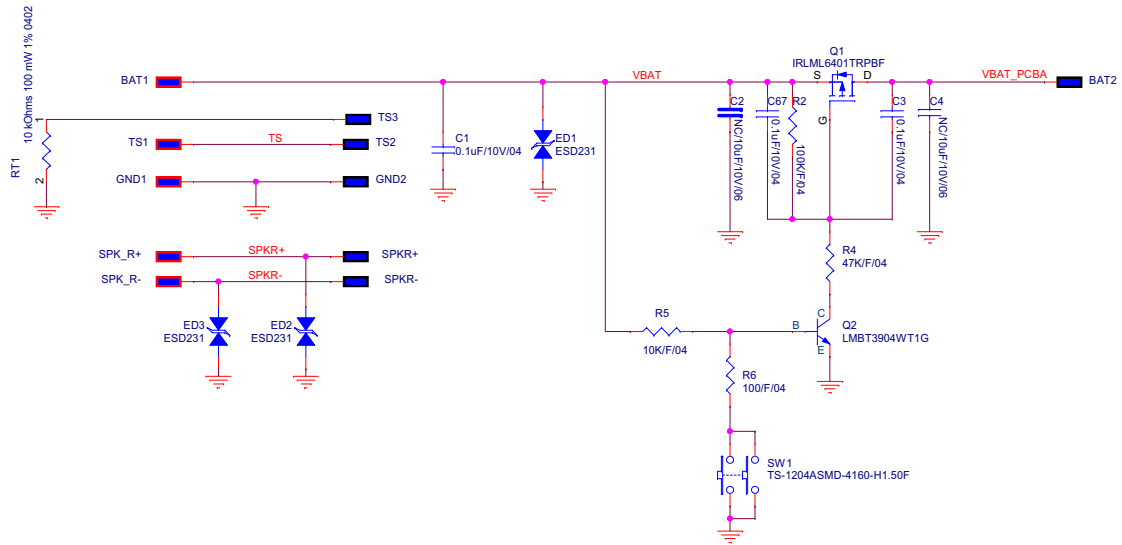
VOLUME ENCODER



Test Point


- 6302_PWR 1 T5 6302_PWR
- SIDE_TONE_SW 1 T6 SIDE_TONE_SW
- VR_ADC 1 T7 VR_ADC
- 6302_G14_ENC_A 1 T8 6302_G14_ENC_A
- 6302_G15_ENC_B 1 T9 6302_G15_ENC_B

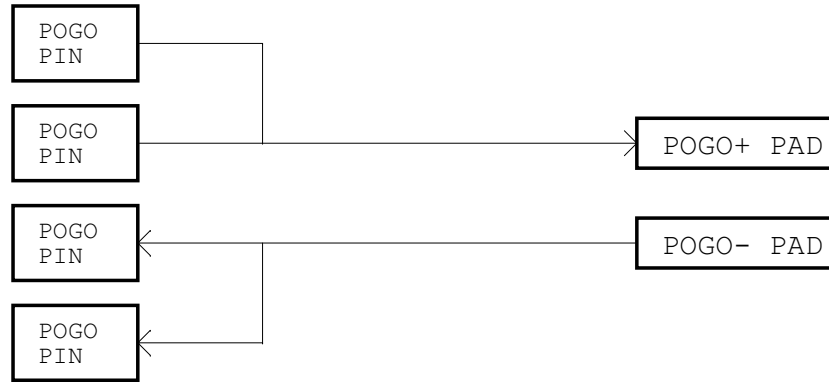
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| Eddie | Carl | Boyce | Project Number | AMPACS CORPORATION |
| | | | RIG800 Pro_RX_MAIN | |
| | | | Size | Rev |
| | | | C IO | D |
| Date: Wednesday, August 04, 2021 Sheet 6 of 6 | | | | |




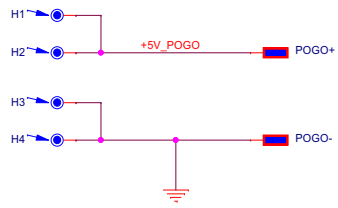
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|-------------|------------|----------|--------------------|----------------------|--------------------|
| Eddie | Carl | Boyce | Project Number | RIG800 Pro_RX_BAT | |
| | | | Size | C | |
| | | | Title | R_BAT | |
| | | | Date: | Friday, May 14, 2021 | Sheet 3 of 3 |


2021.02.22
Initial by Carl.
2021/08/05
1. modify layout.
2021/08/12
1. modify layout.

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| Approved by | Checked by | Designer | AMPACS CORPORATION | |  |
| Eddie | Carl | Boyce | Project Number RIG800 Pro_RX_POGO | | |
| Size C | | Title History | | Rev D | |
| Date: Friday, September 17, 2021 | | | Sheet 1 of 3 | | |



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| Size C | | Title Block | | Rev D | |
| Date: Friday, September 17, 2021 | | | Sheet 2 of 3 | | |



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| Eddie | | Carl | | Boyce | | Project Number RIG800 Pro_RX_POGO | | |
| Size | | Title | | Date: | | Rev | | |
| C | | POGO | | Friday, September 17, 2021 | | D | | |
| | | | | Sheet 3 of 3 | | | | |