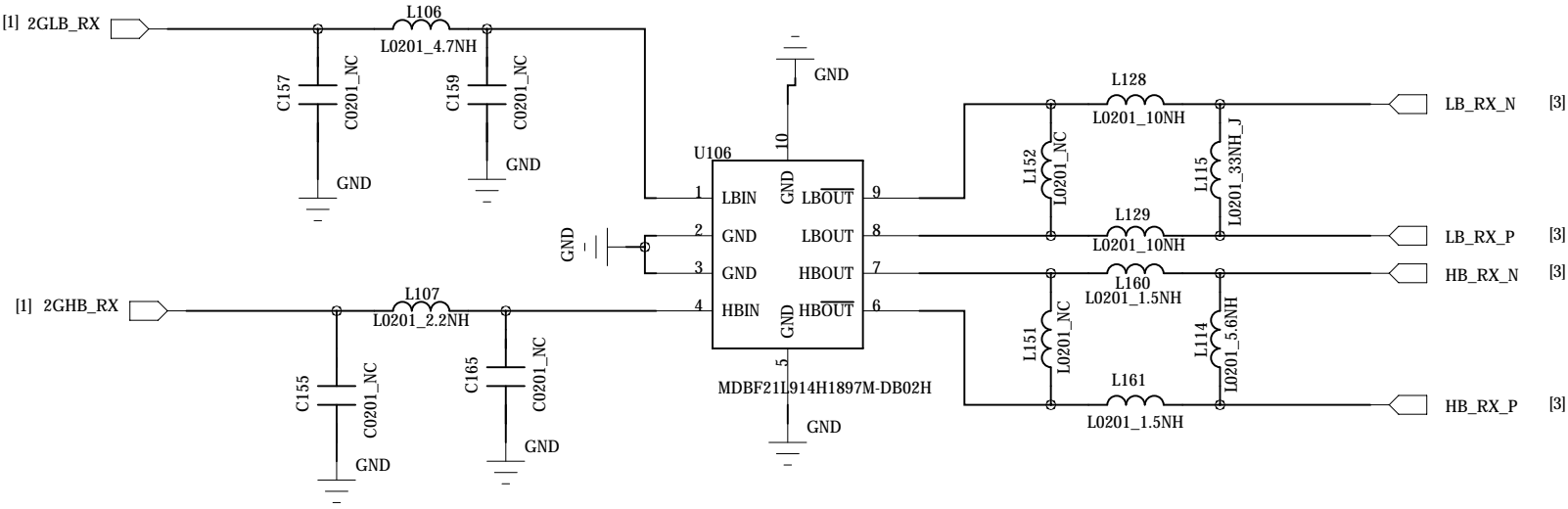
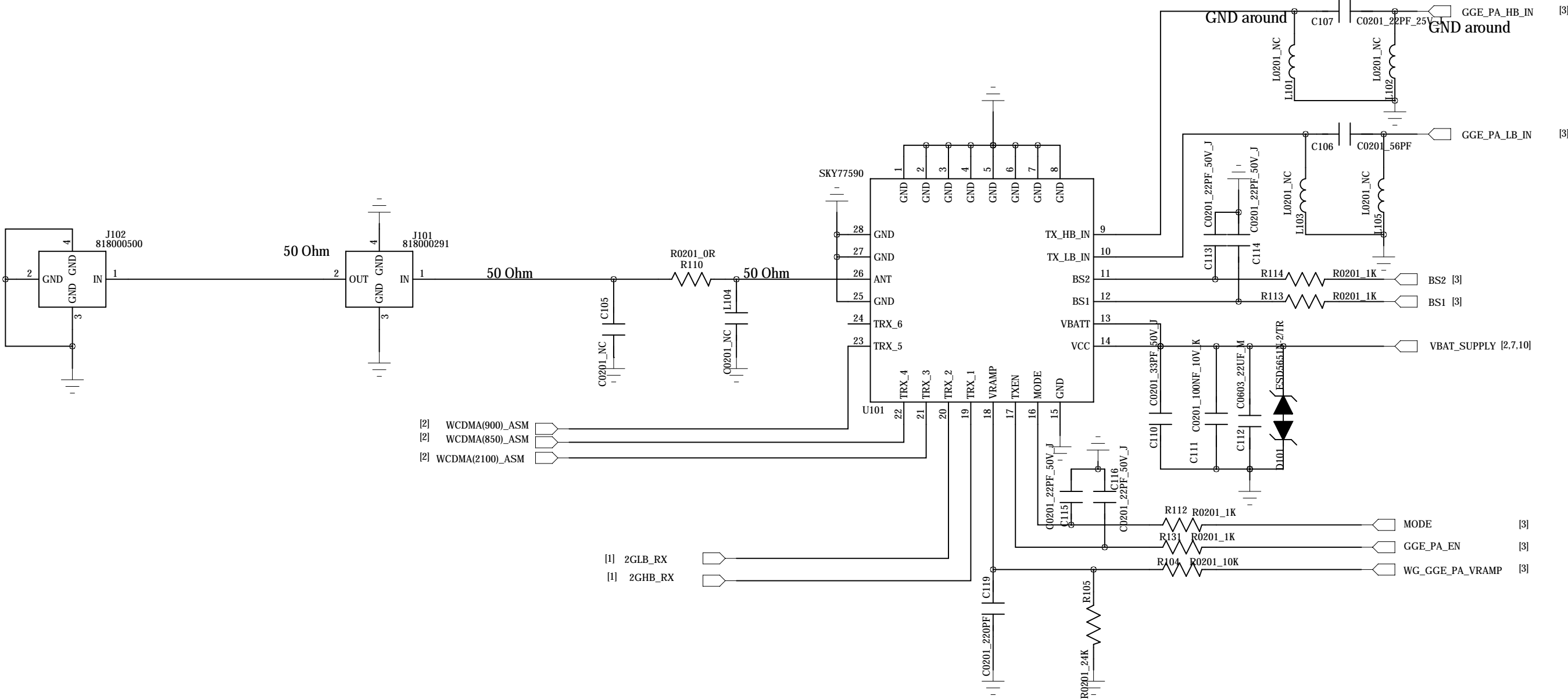


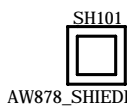
MTK Recommend
W/EDGE:SKY77590 SP8T(6TRX)
W/GPRS:SKY77584 SP6T(4TRX)

SKY77590 Control Logic Table

| | VctA | VctB | VctC | Enable |
|----------|------|------|------|--------|
| | BS2 | BS1 | Mode | TxEN |
| TRX1 | L | L | H | L |
| TRX2 | L | H | H | L |
| TRX3 | H | L | H | L |
| TRX4 | H | H | H | L |
| TRX5 | L | H | L | L |
| TRX6 | H | L | L | L |
| EDGETX_L | H | L | H | H |
| EDGETX_H | H | H | H | H |
| GMSKTX_L | H | L | L | H |
| GMSKTX_H | H | H | L | H |
| STANDBY | L | L | L | L |



MTK Recommend



AW878_SHIEDLING_BB

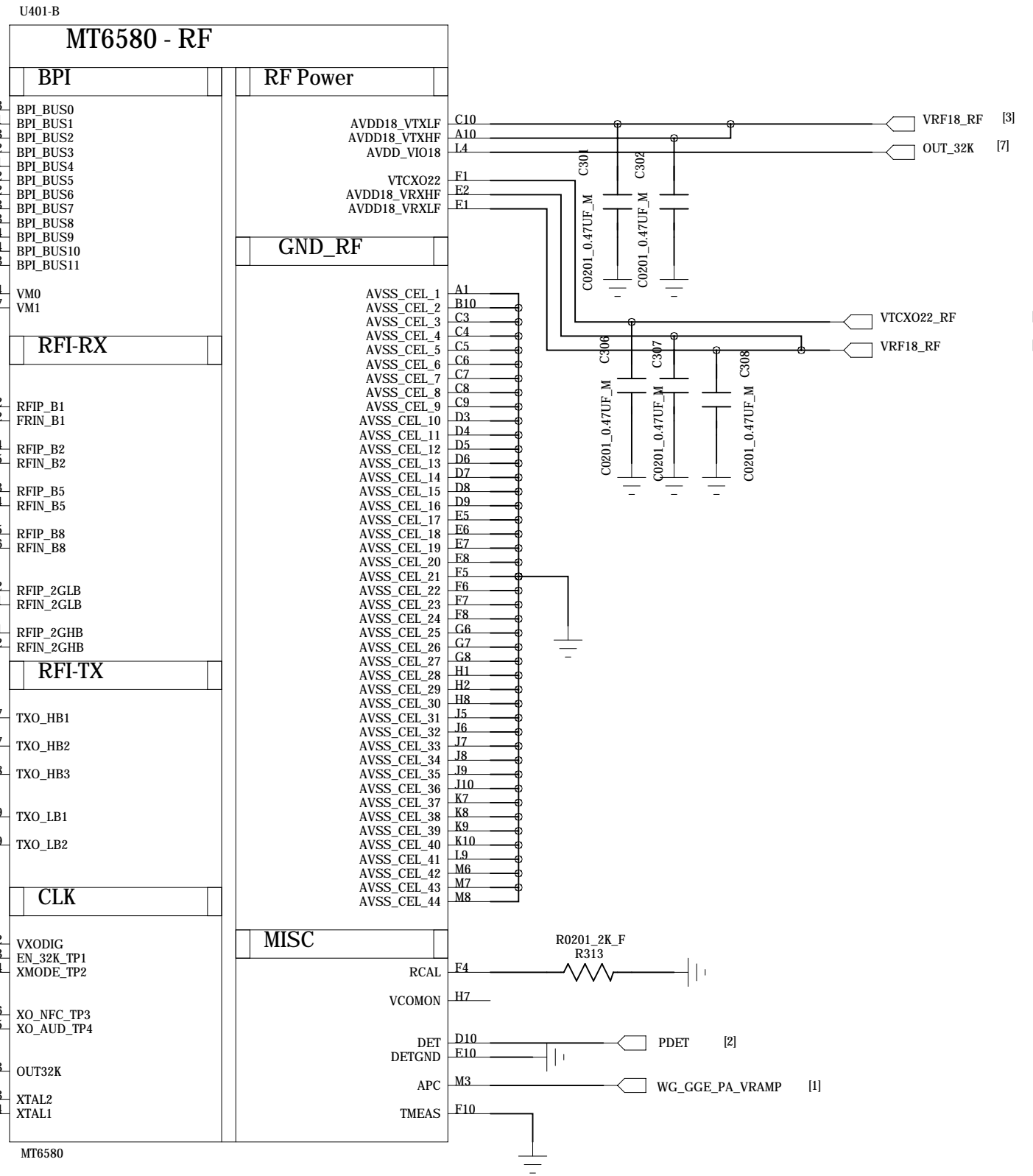
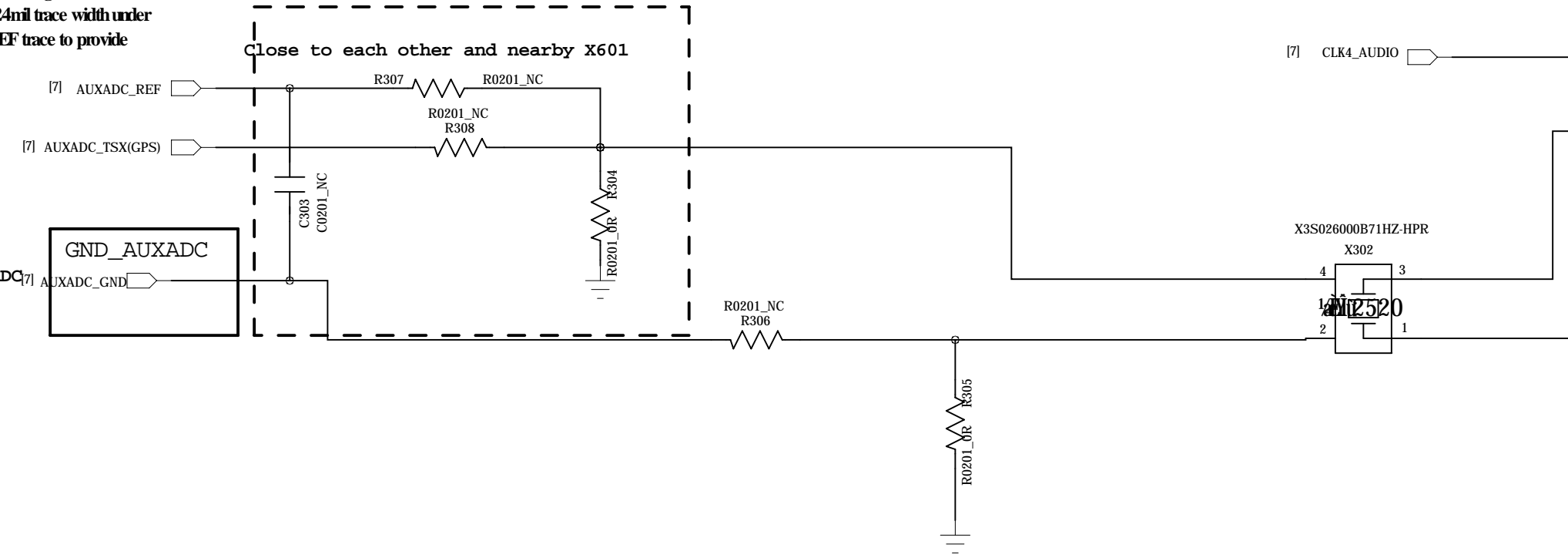


AW878_SHIEDLING_PMIC

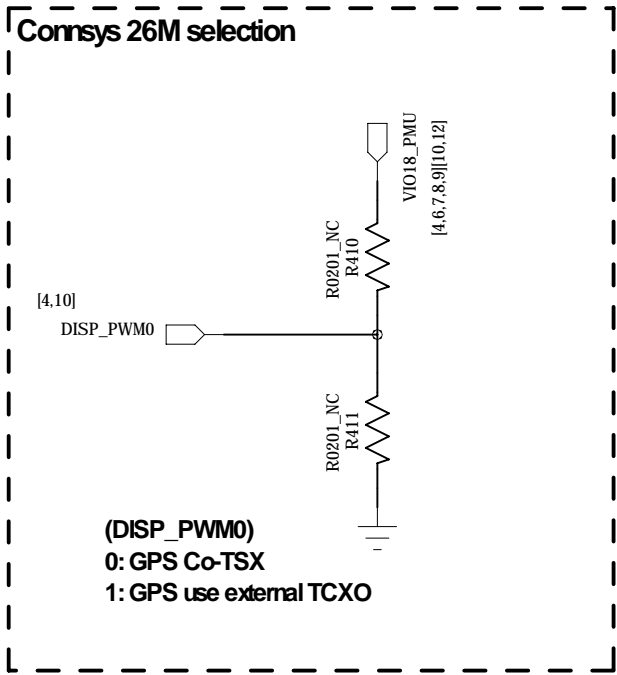
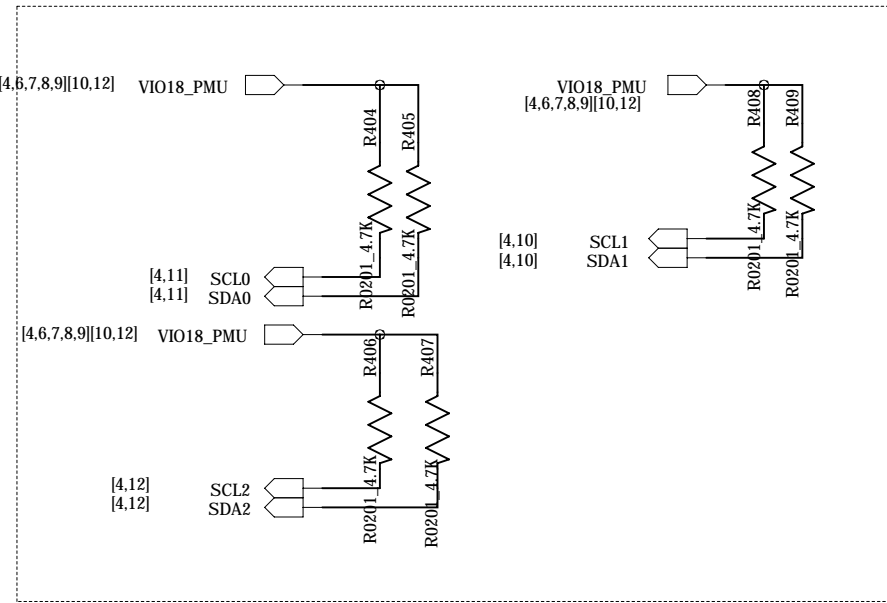
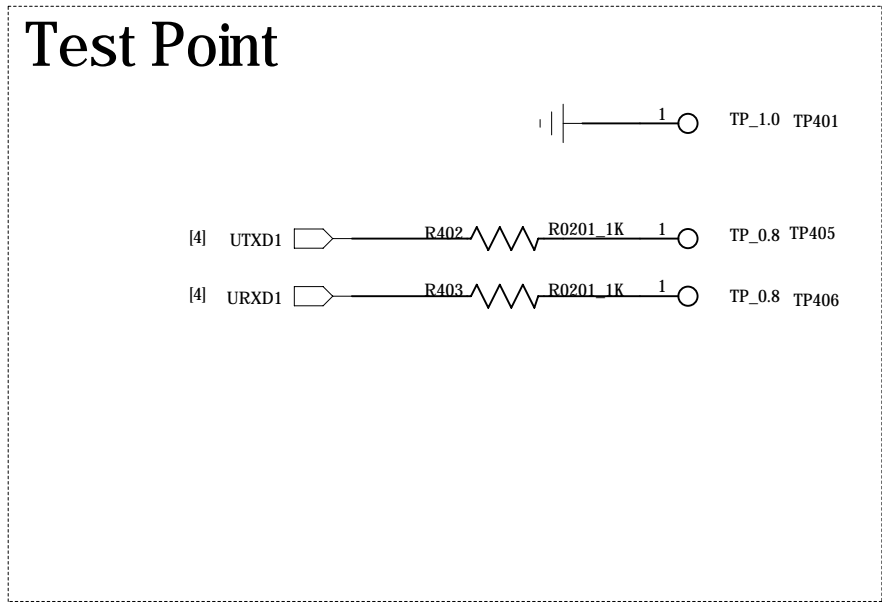
| | | | | | | | |
|---------|--|-------|--|--------------|--|--------------|----------|
| HUAQIN | | | | MODEL: AW878 | | DRAWING NO.: | |
| DRAWN | | DATED | | TITLE: | | VERSION: | SHEET: 1 |
| CHECKED | | DATED | | | | | |

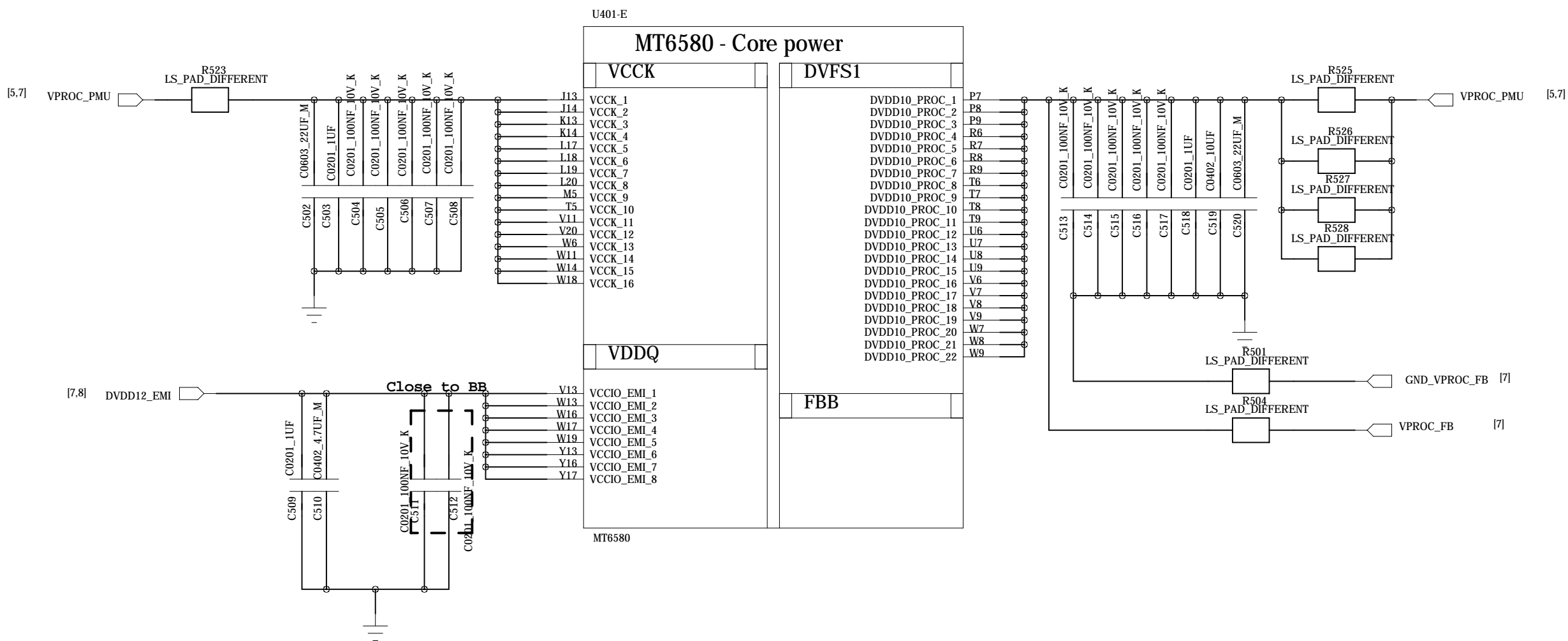
- 1.Route AUXADC_REF_RE/THERM_SENSE with 4mil trace width
- 2.Route AUXADC_REF_RE/THERM_SENSE as differential trace with well GND shielding
- 3.Route AUXADC_GND with 24mil trace width under THERM_SENSE/AUXADC_REF trace to provide return current path

Connect TSX/XTAL GND to AVSS28_AUXADC first than connect to main GND

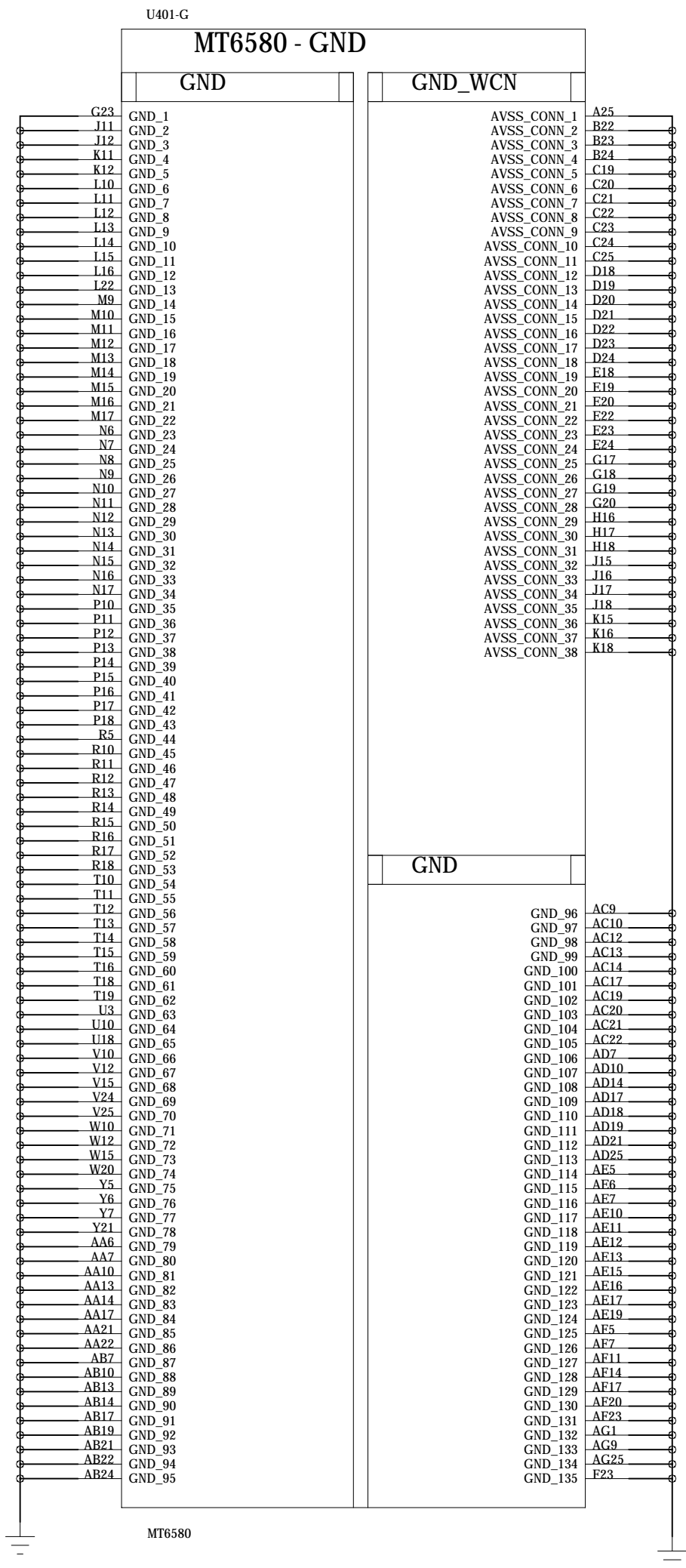


| | | | | | | | |
|---------|--|-------|--|--------------|--|--------------|----------|
| HUAQIN | | | | MODEL: AW878 | | DRAWING NO.: | |
| DRAWN | | DATED | | TITLE: | | VERSION: | SHEET: 3 |
| CHECKED | | DATED | | | | | |

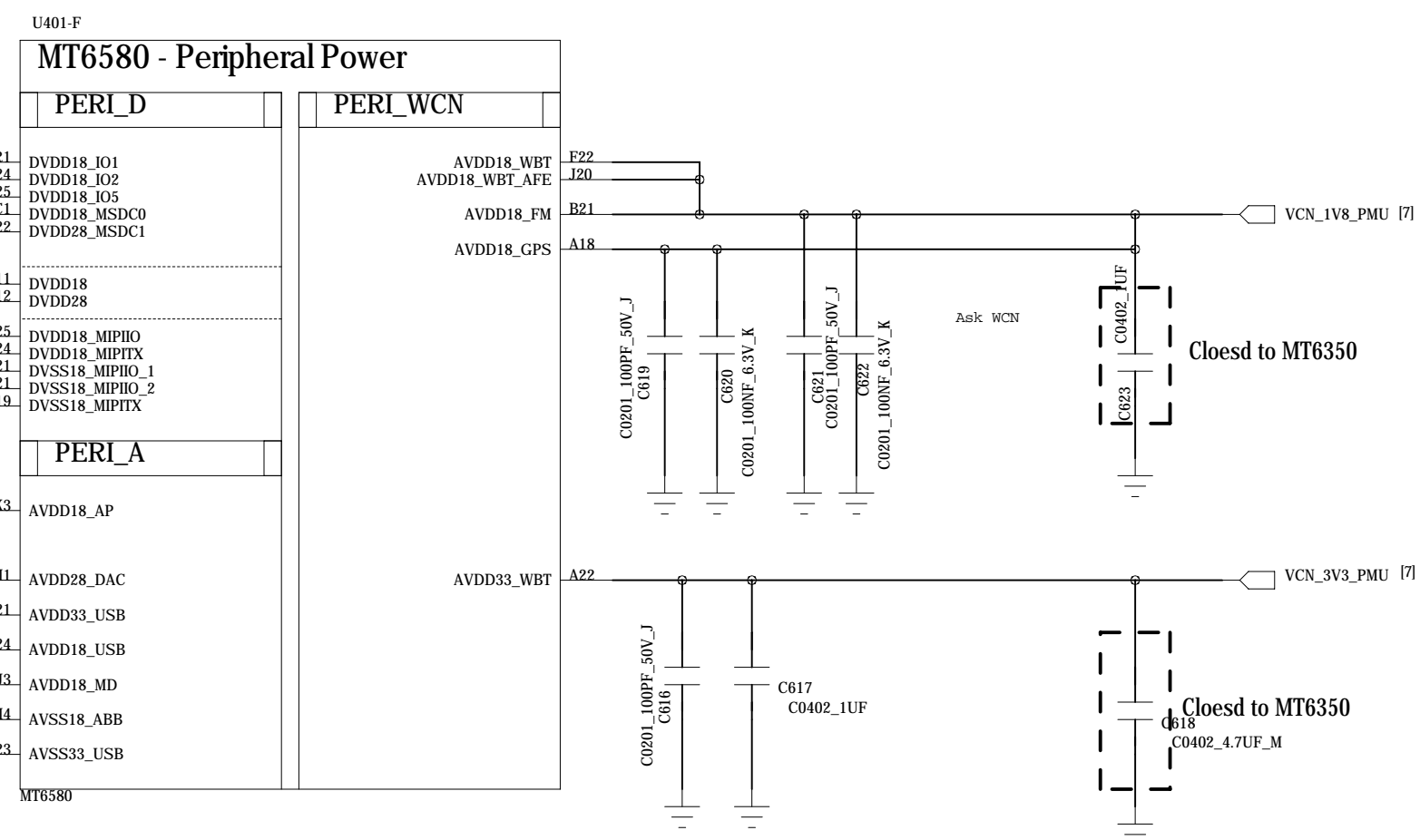
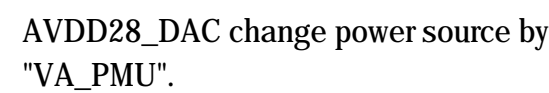
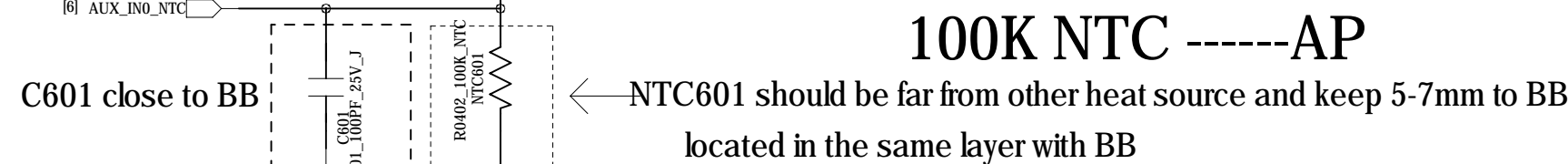




MT6570: W/O R1001,R1008,R1009,U2302
W/ R1003,R1007,R1006(1-2)
MT6580: W/O R1003,R1007
W/ R1001,R1006(2-3),R1008,R1009

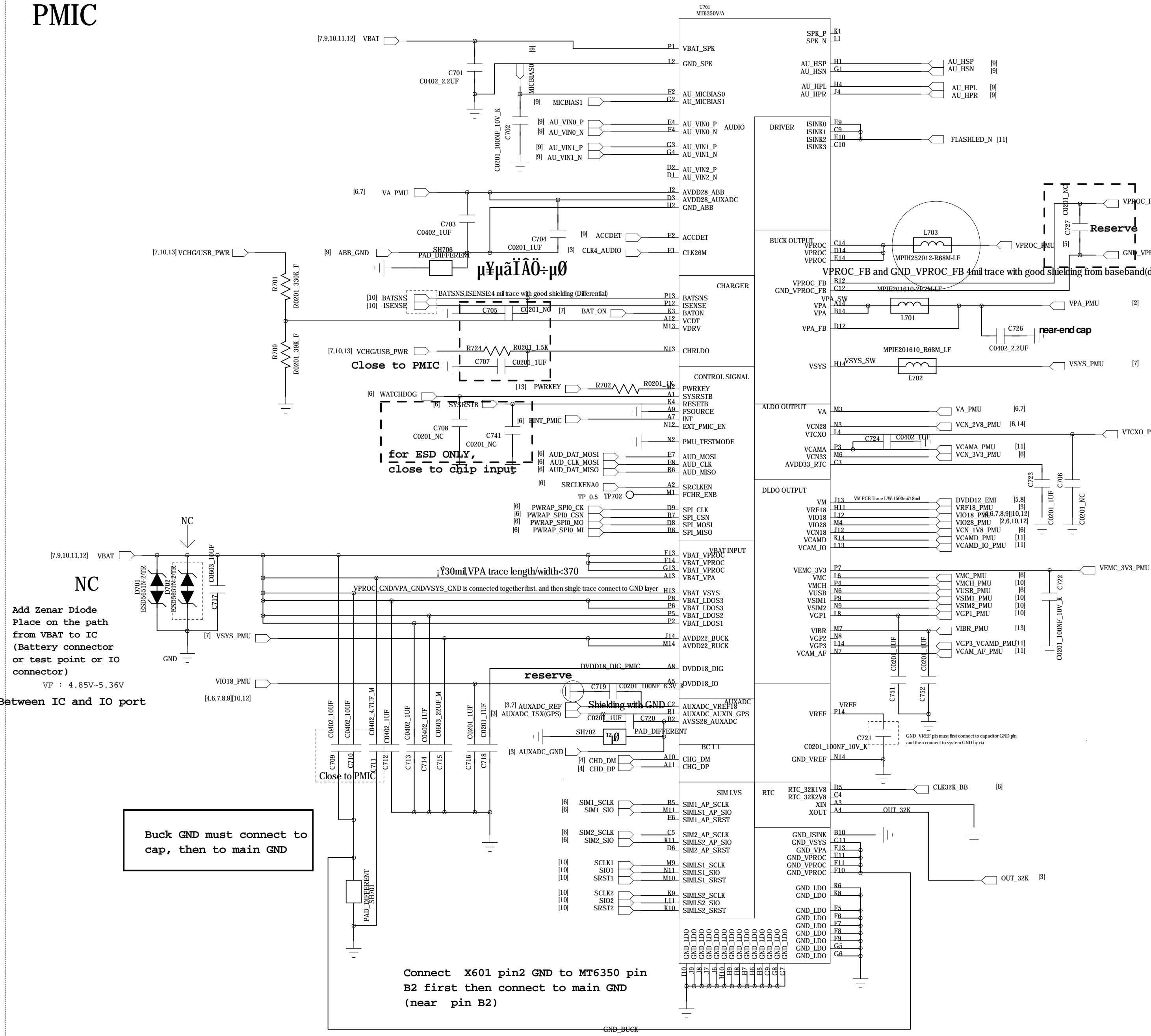


| | | | | | | | |
|---------|--|-------|--|--------------|--|--------------|----------|
| HUAQIN | | | | MODEL: AW878 | | DRAWING NO.: | |
| DRAWN | | DATED | | TITLE: | | VERSION: | SHEET: 5 |
| CHECKED | | DATED | | | | | |

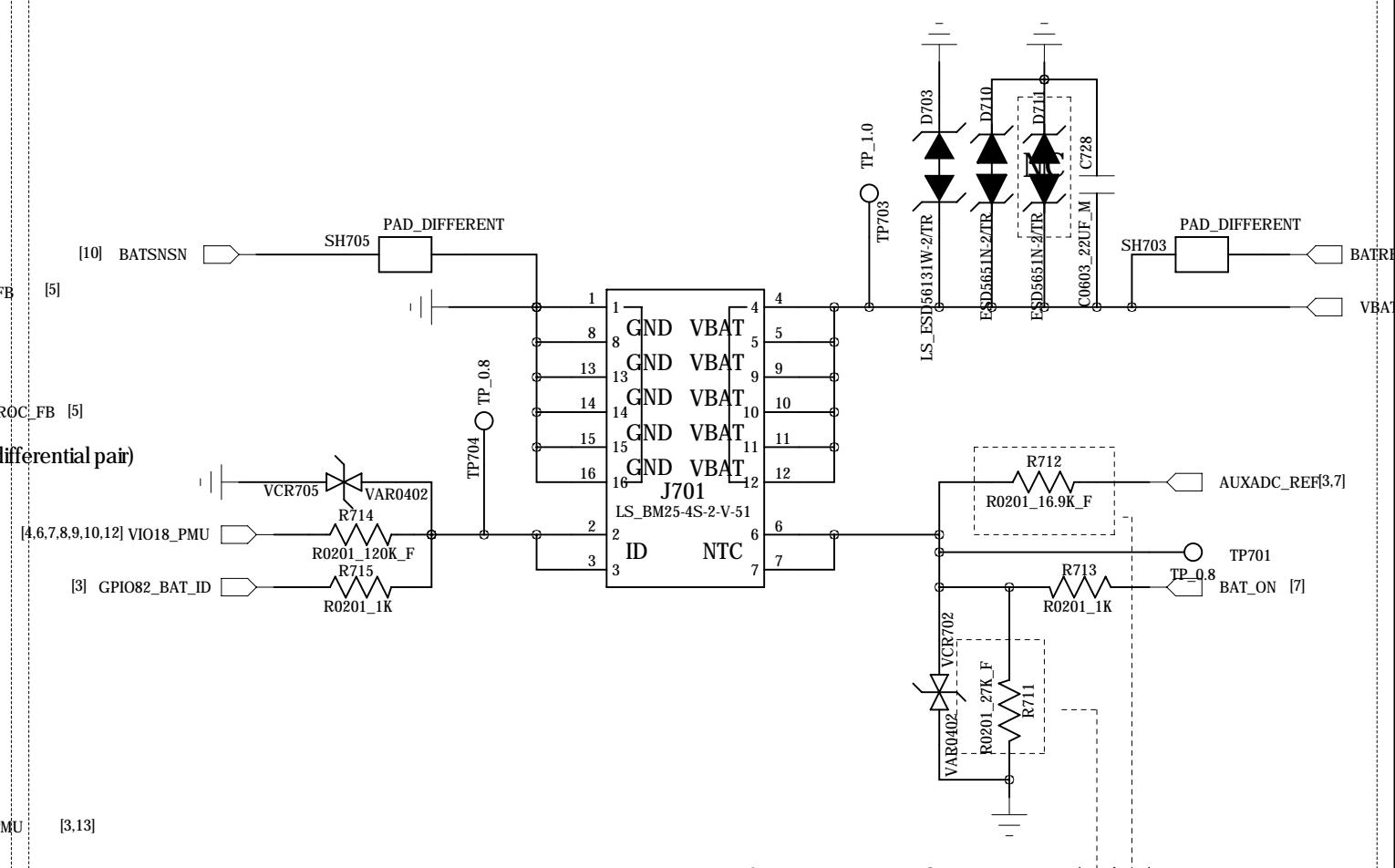


| | | | | | | |
|---------|--|-------|--|--------------|--------------|----------|
| HUAQIN | | | | MODEL: AW878 | DRAWING NO.: | |
| DRAWN | | DATED | | TITLE: | VERSION: | SHEET: 6 |
| CHECKED | | DATED | | | | |

PMIC



BATTERY CONNECTOR



| Buck | VPROC | 0.7~1.4 | 2800mA | >120mil |
|-------------|----------|---------------------------------|--------|---------|
| | VPA | 0.5~3.4 | 600mA | >25mil |
| | VSYS | 2.2 | 1400mA | >60mil |
| | | | | |
| Analog LDO | VRTC | 2.8 | 2mA | >4mil |
| | VA | 2.8 | 150mA | >8mil |
| | VCN28 | 2.8 | 30mA | >4mil |
| | VTCXO | 2.8 | 40mA | >4mil |
| | VCAMA | 2.8 | 150mA | >10mil |
| | VCN33 | 3.3/3.4/3.5/3.6 | 240mA | >10mil |
| Digital LDO | VIO18 | 1.8 | 300mA | >15mil |
| | VMC | 1.8/3.3 | 100mA | >6mil |
| | VMCH | 3.0/3.3 | 400mA | >20mil |
| | VEMC_3V3 | 3.0/3.3 | 400mA | >20mil |
| | VM | 1.24/1.35/1.54/1.84 | 700mA | >30mil |
| | VRF18 | 1.825 | 200mA | >10mil |
| | VCN_1V8 | 1.8 | 120mA | >6mil |
| | VCAMD | 1.2/1.3/1.5/1.8 | 150mA | >10mil |
| | VCAM_IO | 1.8 | 100mA | >6mil |
| | VGP3 | 1.2/1.3/1.5/1.8 | 200mA | >10mil |
| | VIO28 | 2.8 | 200mA | >10mil |
| | VUSB | 3.3 | 20mA | >4mil |
| | VCAM_AF | 1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3 | 100mA | >6mil |
| | VSIM1 | 1.8/3.0 | 50mA | >4mil |
| | VSIM2 | 1.8/3.0 | 50mA | >4mil |
| | VGP1 | 1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3 | 100mA | >6mil |
| | VGP2 | 1.2/1.3/1.5/1.8/2.0/2.5/2.8/3.0 | 100mA | >6mil |
| | VDIG18 | 1.8 | 20mA | >4mil |
| | VIBR | 1.2/1.3/1.5/1.8/2.0/2.8/3.0/3.3 | 100mA | >6mil |

HUAQIN

MODEL: AW878

DRAWING NO.:

DRAWN:

DATED

TITLE:

VERSION:

SHEET: 7

CHECKED

DATED

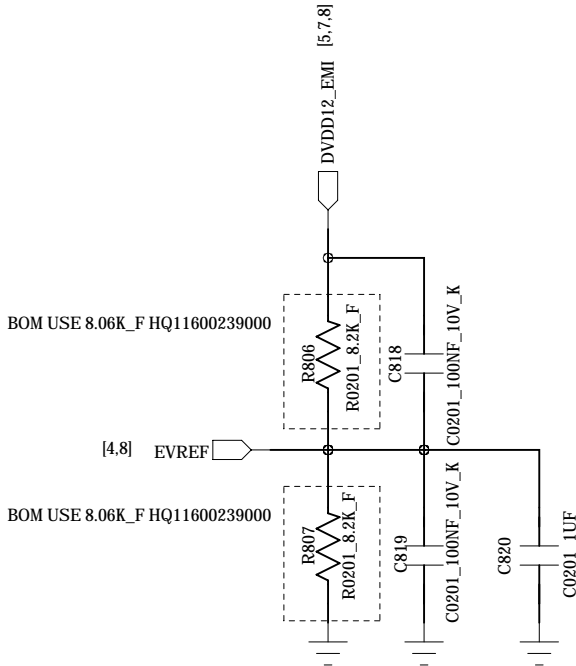
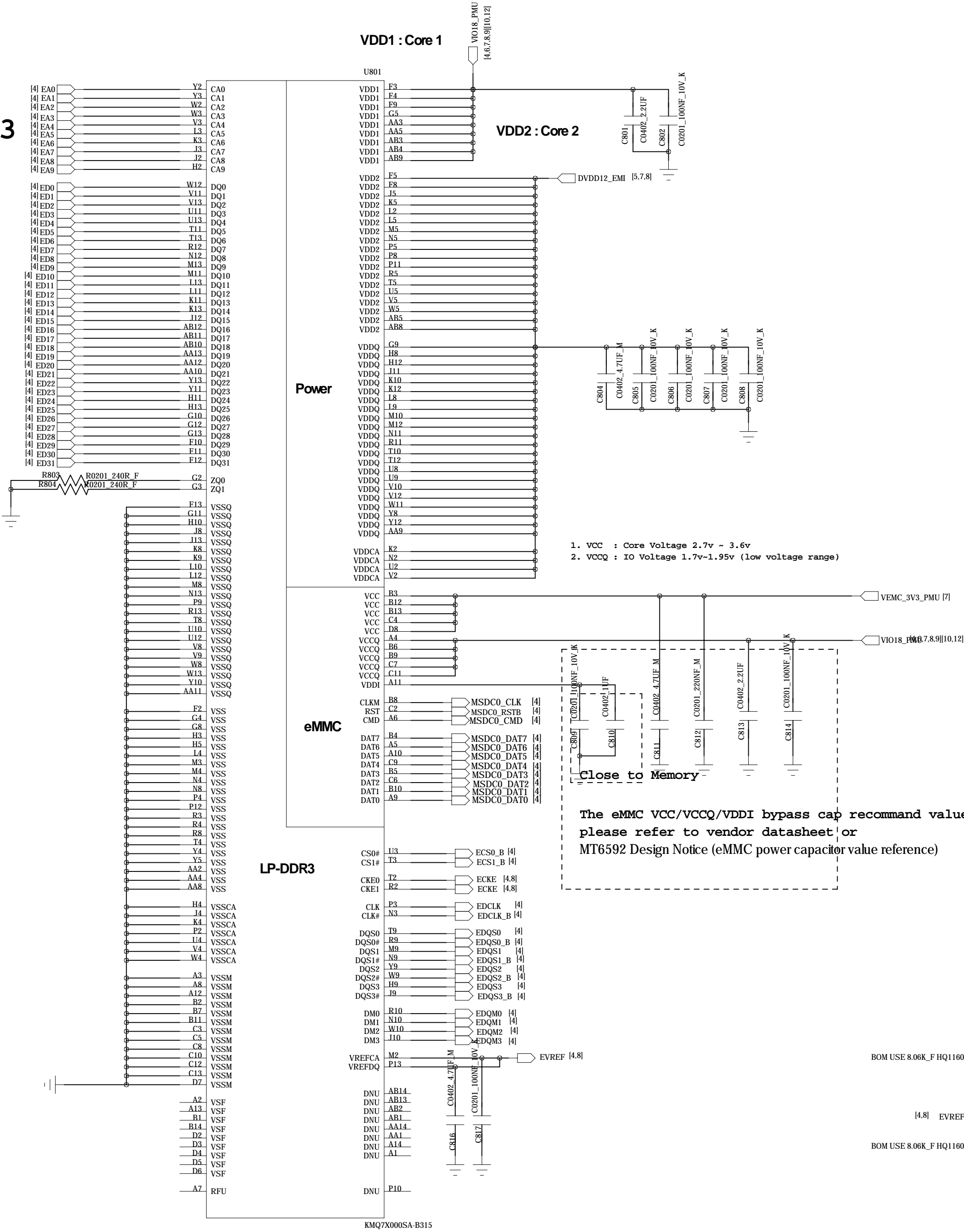
eMMC+LPDDR3

221 Ball, 0.5mm pitch

VDD1=1.8V
VDD2=1.20V
VDDCA=1.2V
VDDQ= 1.20V

| | | | |
|-------------------------|---------------|---------|--------------|
| SAMSUNG此型号可选 | | | |
| MCP_8GB-eMMC_8Gb-LPDDR3 | KMQ72000SM-B3 | Samsung | TLC, 16+23nm |

| | | | |
|-------------------------|--------------------|-------|-------|
| 请将HYNIX做二供验证 | | | |
| MCP_8GB-eMMC_8Gb-LPDDR3 | H9TQ64A8GTMCUR-KUM | Hynix | F16PL |



HUAQIN

MODEL: AW878

DRAWING NO.:

DRAWN:

DATED

TITLE:

VERSION:

SHEET: 8

[illegible]

EAR MIC

Close to BB Close to earphone jack

17] AU_VIN1_N C909 C0201_100NF 10V_K >6mil

17] AU_VIN1_P C910 C0201_100NF 10V_K >6mil

DCC mode differential GND around

C911 C0201_100PF_25V_J

C912 C0201_33PF_25V_J

C913 C0201_33PF_25V_J

C914 C0201_33PF_25V_J

C915 C0201_47UF_1M

R909 R0201_1K

R910 R0201_15K

R911 R0201_1K

R912 R0201_1K

MICBIAS1 [7]

HP_MIC [9]

ACCDET [7]

Tie together and single via to GND plane

[illegible]

EAR JACK

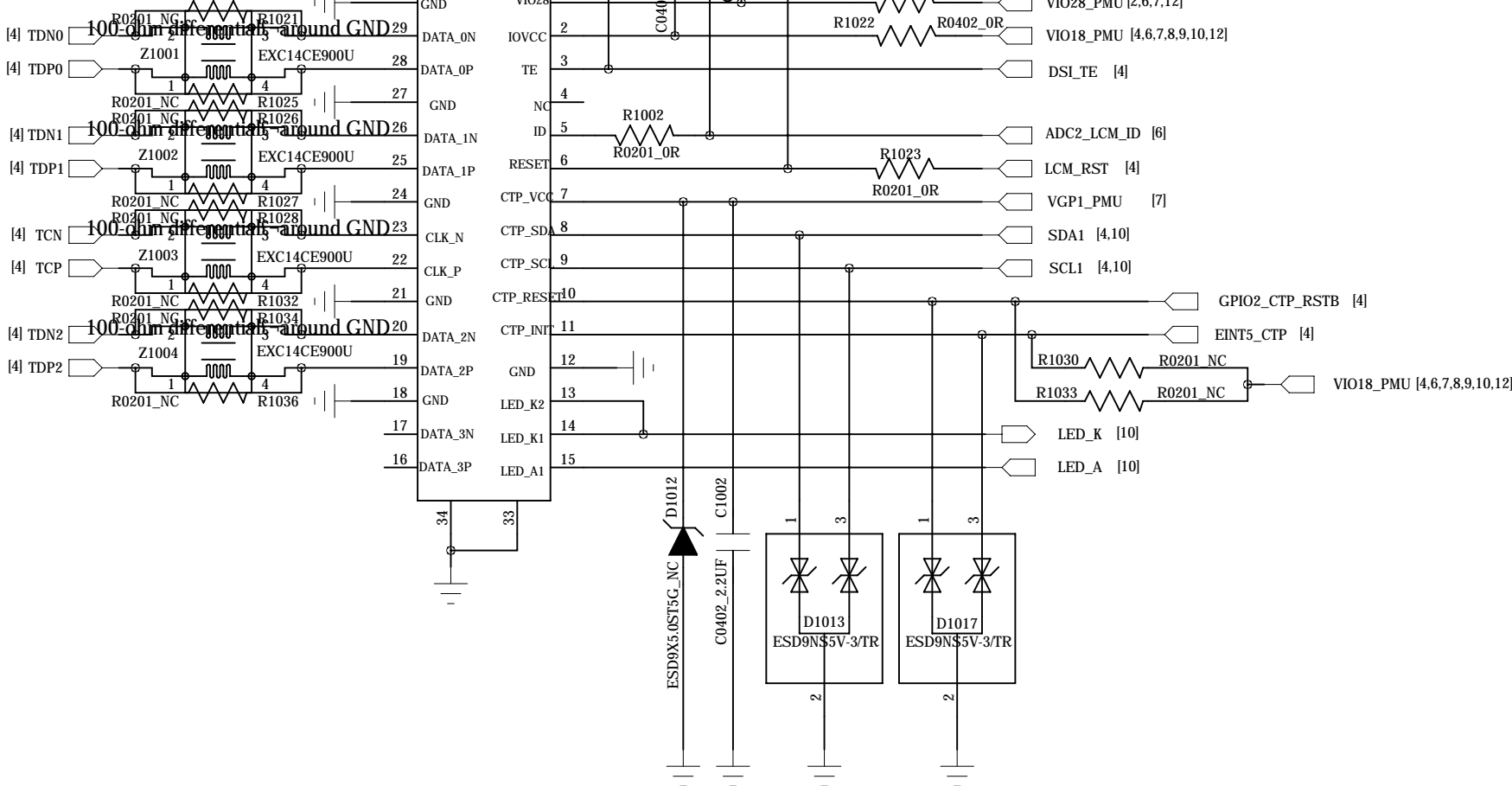
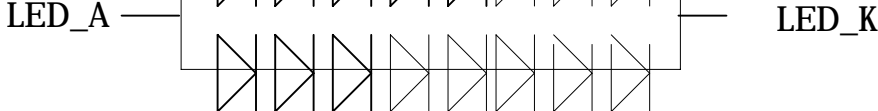
Close to IC

ALL GND Tie together and single via to GND plane

Power Domain

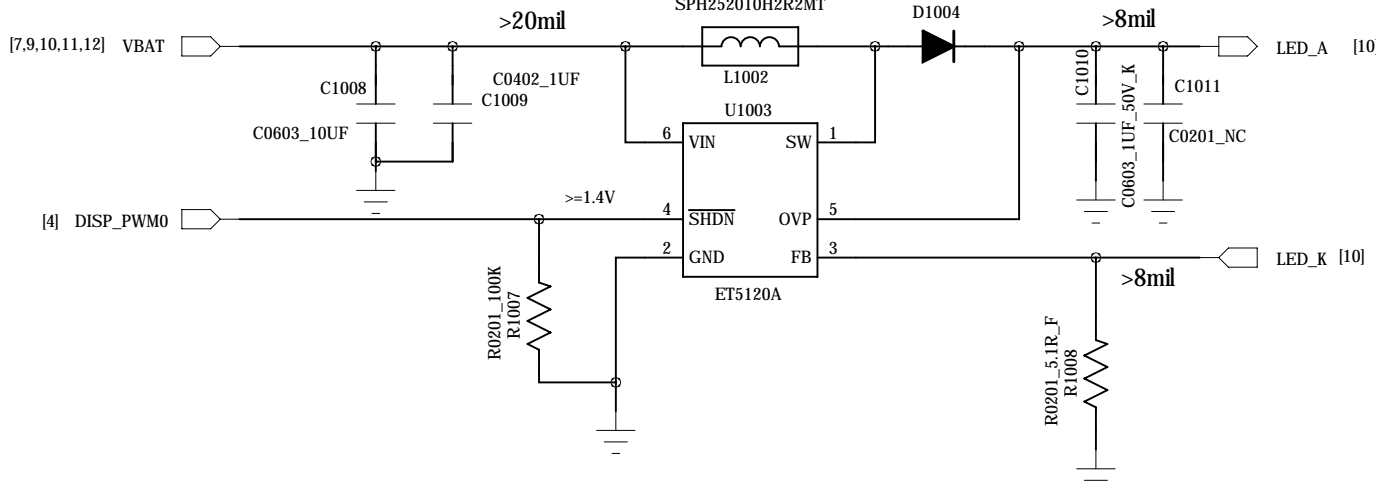
| | | | | | | |
|---------|--|-------|--|--------------|--------------|----------|
| HUAQIN | | | | MODEL: AW878 | DRAWING NO.: | |
| DRAWN: | | DATED | | TITLE: | VERSION: | SHEET: 9 |
| CHECKED | | DATED | | | | |

LCM



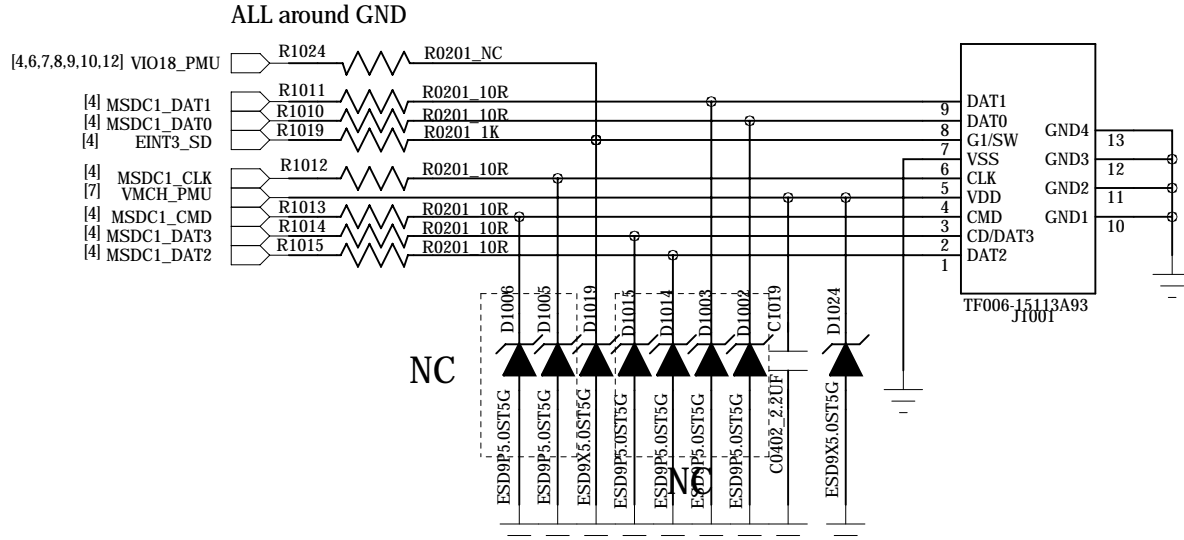
LCD BL Driver

2st:HQ11150145000-WD3139F-6/TR
1nd:HQ11150276000-SGM3752YTN6G/TR

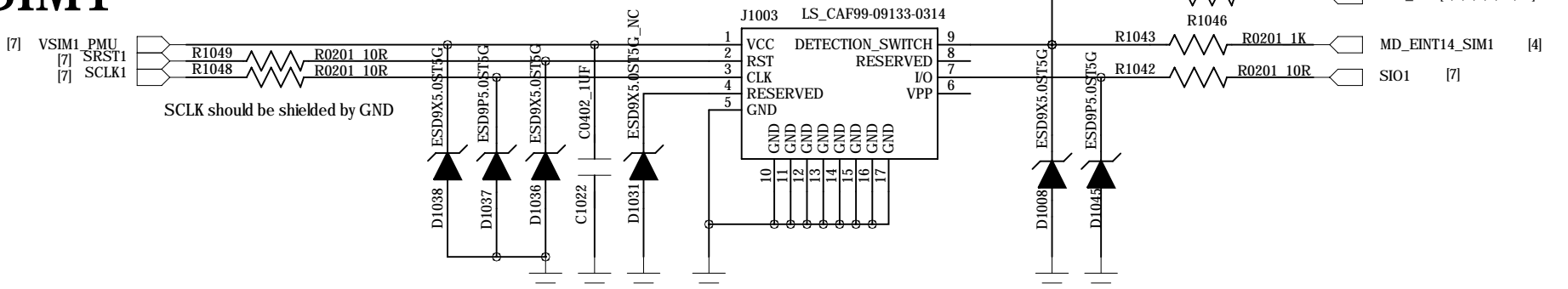


6S=20V->KTD256B
12 LED=2P6S

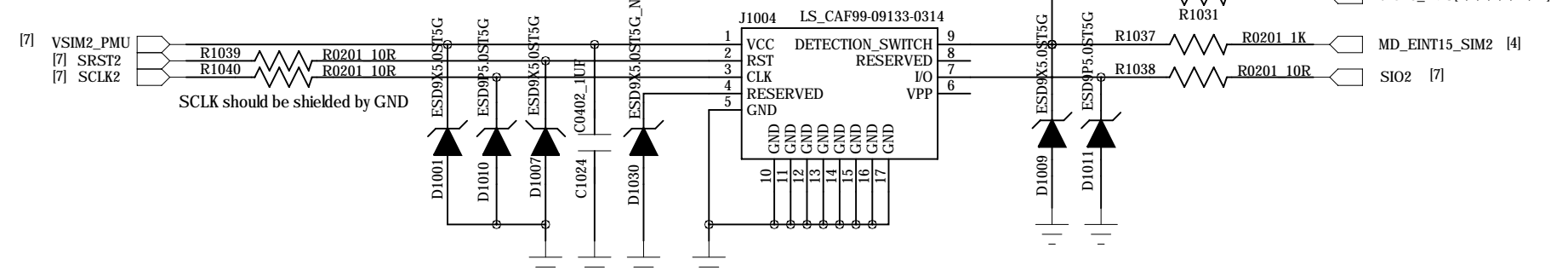
T-FLASH



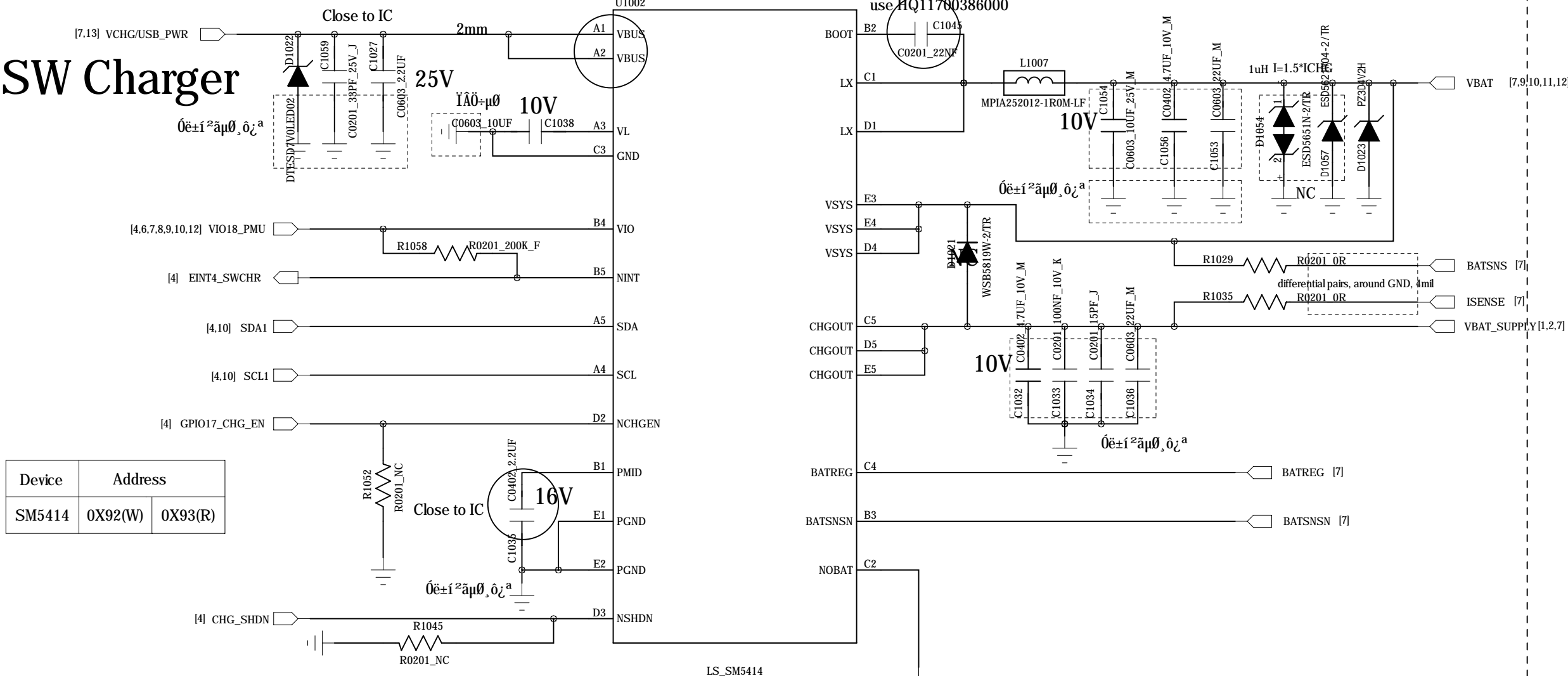
SIM 1



SIM2



SW Charger



| Device | Address | |
|--------|---------|---------|
| SM5414 | 0X92(W) | 0X93(R) |

HUAQIN

MODEL: AW878

DRAWING NO.:

DRAWN:

DATED

TITLE

VERSION:

SHEET: 10

CHECKED

DATED

[illegible]

LDO

[illegible]

Flash LED(Sub)

Sub CAMERA

| | | | | | | |
|---------|--|-------|--|--------------|--------------|-----------|
| HUAQIN | | | | MODEL: AW878 | DRAWING NO.: | |
| DRAWN | | DATED | | TITLE: | VERSION: | SHEET: 11 |
| CHECKED | | DATED | | | | |

DRAWING NO.:

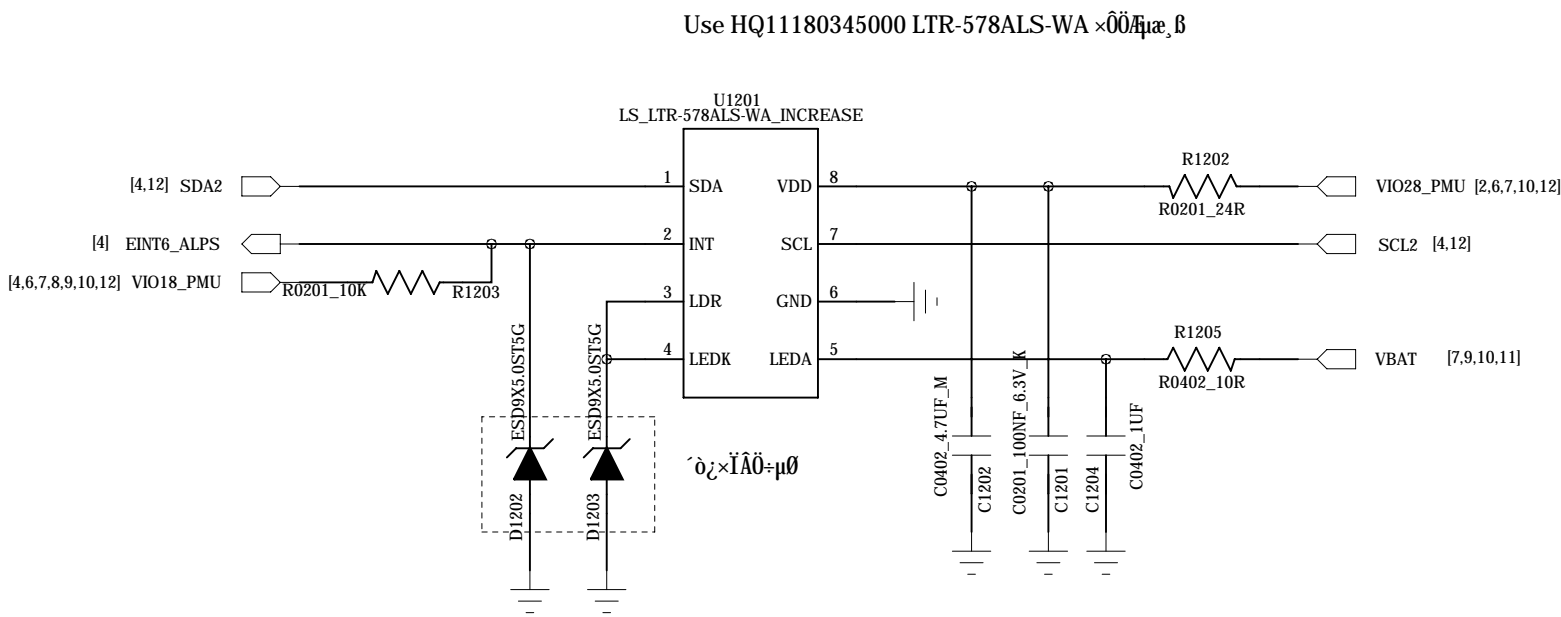
VERSION:

SHEET: 11

DATED

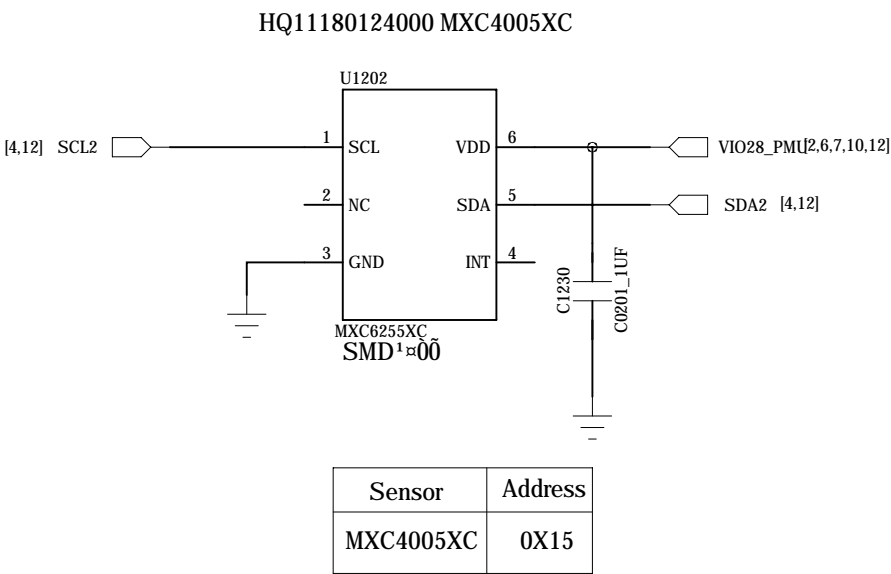
DATED

ALS&PS



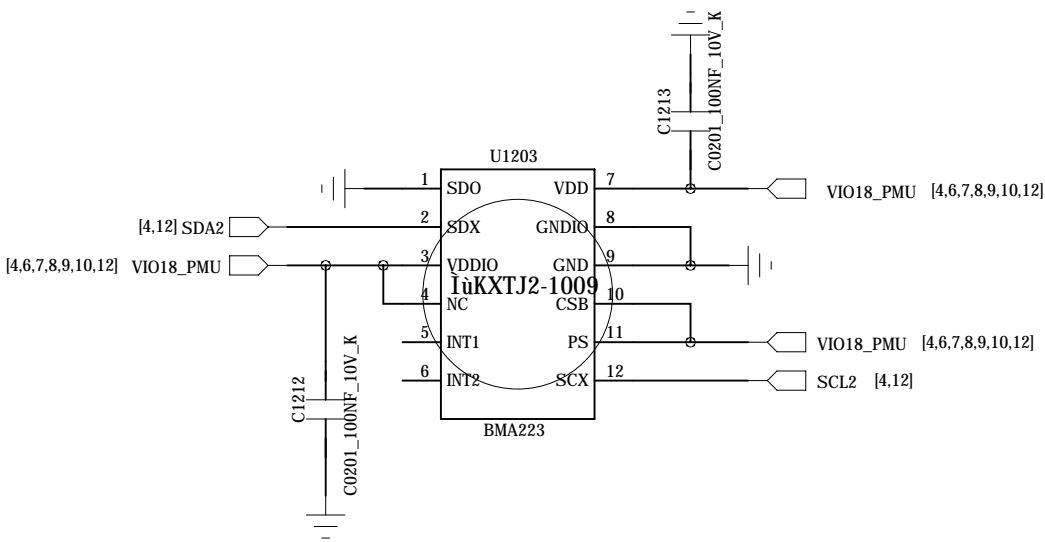
| Sensor | Address |
|---------------|---------|
| LTR-578ALS-WA | 0X53H |

G-sensor



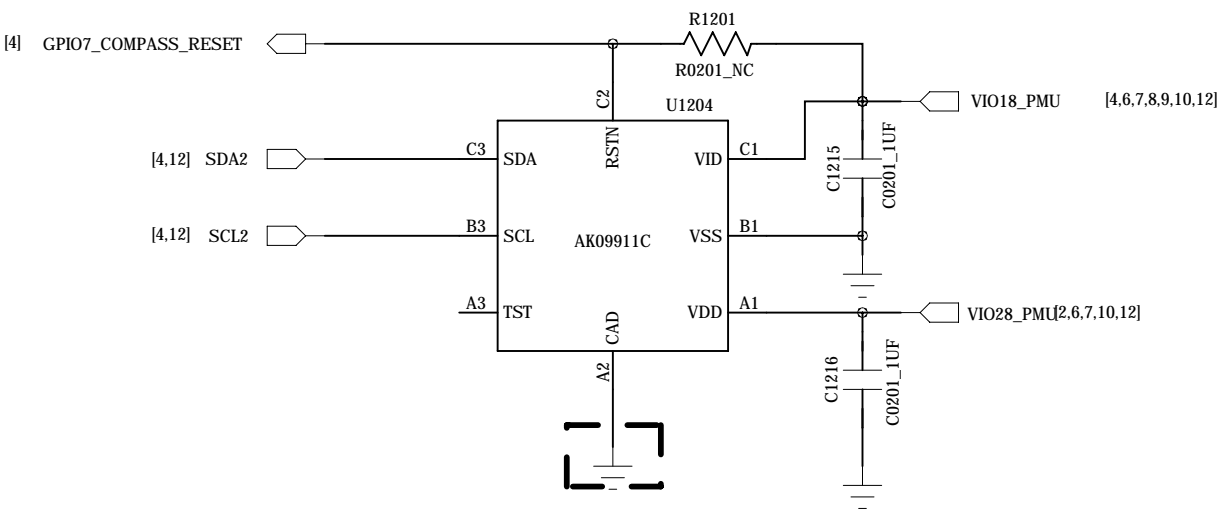
| Sensor | Address |
|-----------|---------|
| MXC4005XC | 0X15 |

G-sensor(reserve)



| Sensor | Address |
|------------|---------|
| KXTJ2-1009 | 0x0E |

E-compass(compatible)



| Sensor | Address |
|----------|---------|
| AK09911C | 0X0C |

HUAQIN

MODEL: AW878

DRAWING NO.:

DRAWN

DATED

CHECKED

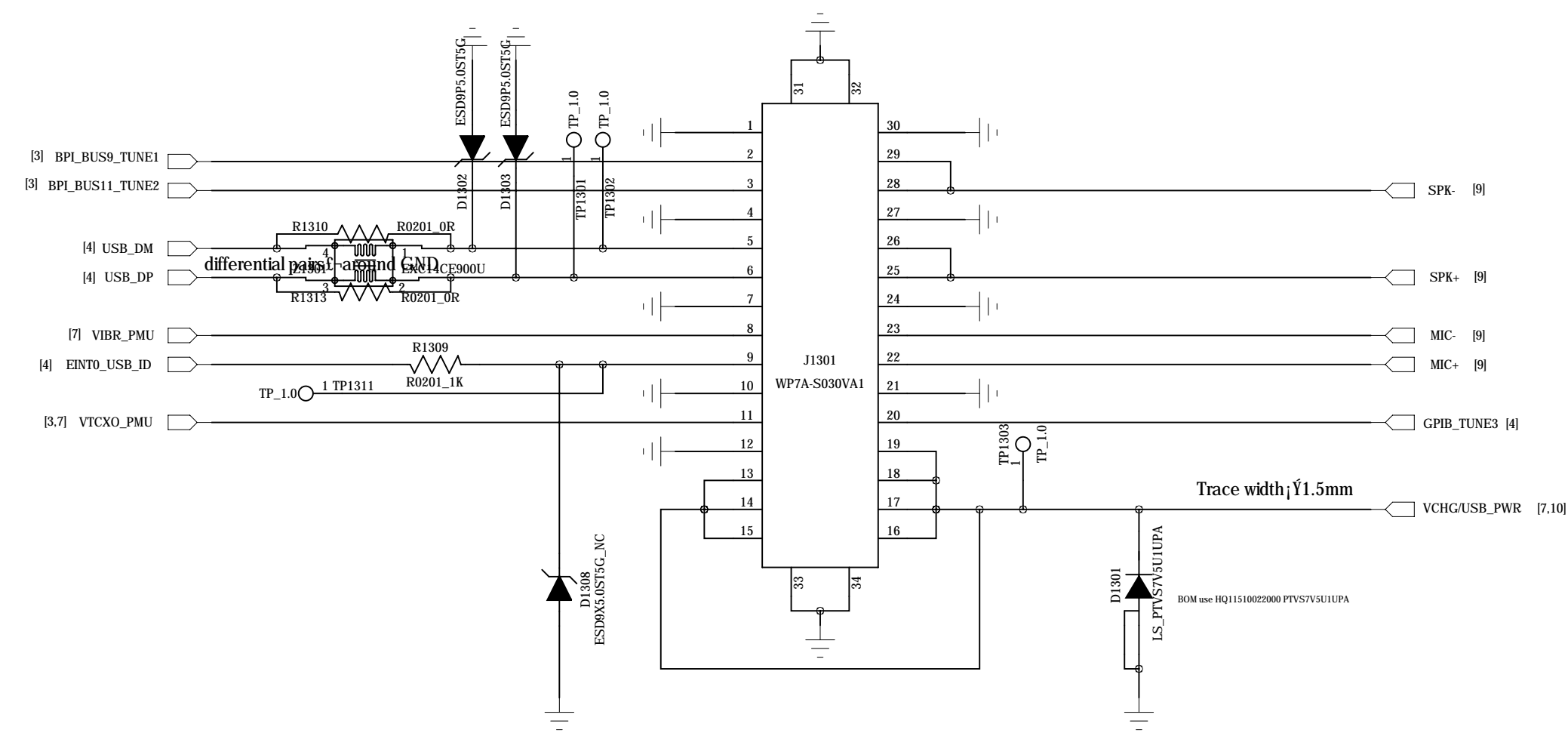
DATED

TITLE:

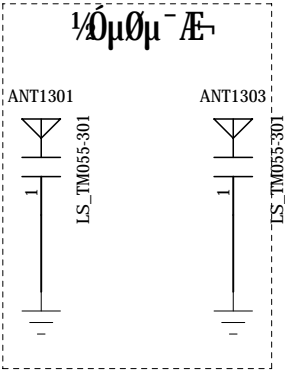
VERSION:

SHEET: 12

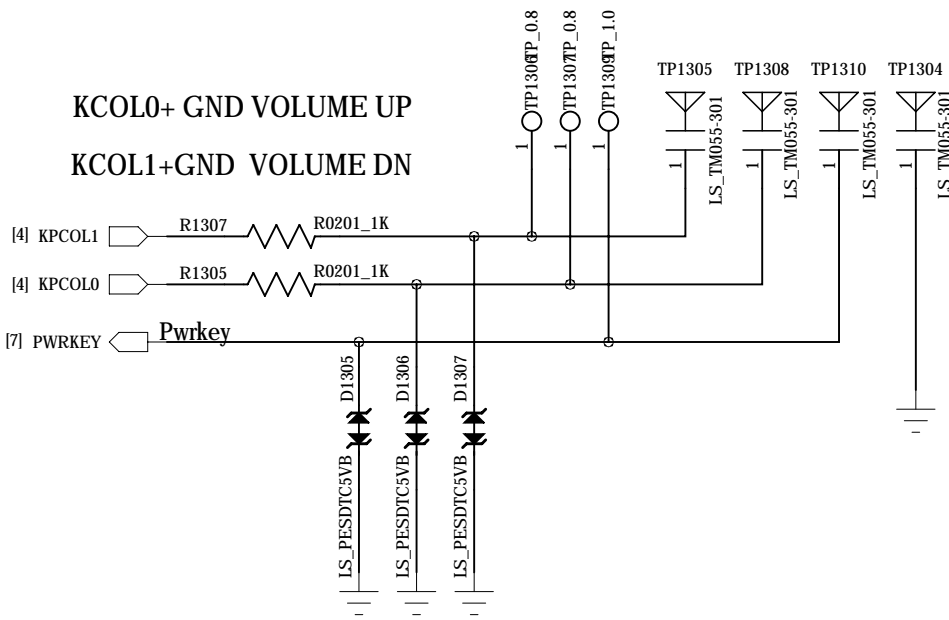
Link



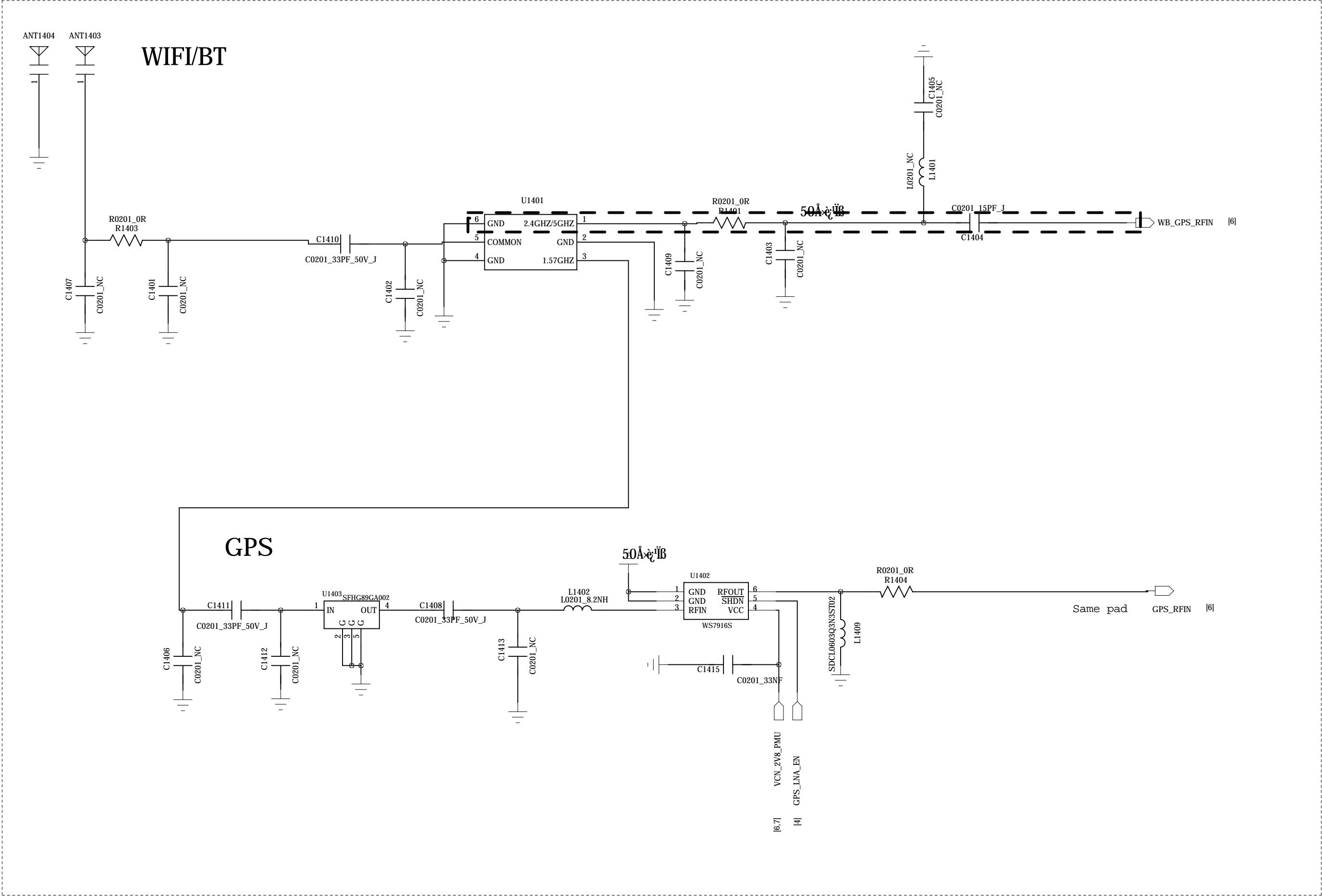
TOP



Sidekey



| | | | | | | | |
|---------|--|-------|--|--------------|--|--------------|-----------|
| HUAQIN | | | | MODEL: AW878 | | DRAWING NO.: | |
| DRAWN | | DATED | | TITLE: | | VERSION: | SHEET: 13 |
| CHECKED | | DATED | | | | | |



F1 F2 F1402 F1401
FIDUCIAL_WITHPASTE FIDUCIAL_WITHPASTE FIDUCIAL_WITHPASTE FIDUCIAL_WITHPASTE

| | | | | | | | |
|---------|--|-------|--|--------------|--|--------------|-----------|
| HUAQIN | | | | MODEL: AW878 | | DRAWING NO.: | |
| DRAWN: | | DATED | | TITLE: | | VERSION: | SHEET: 14 |
| CHECKED | | DATED | | | | | |