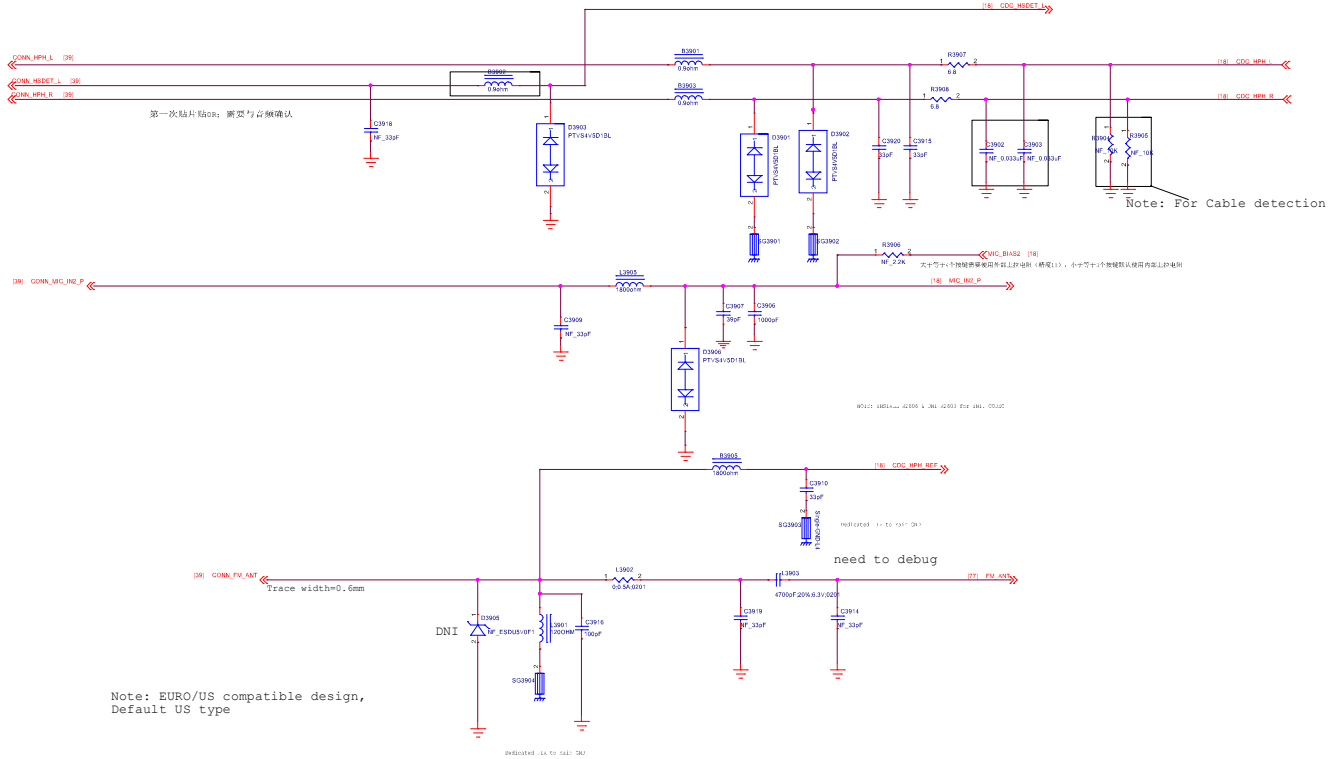
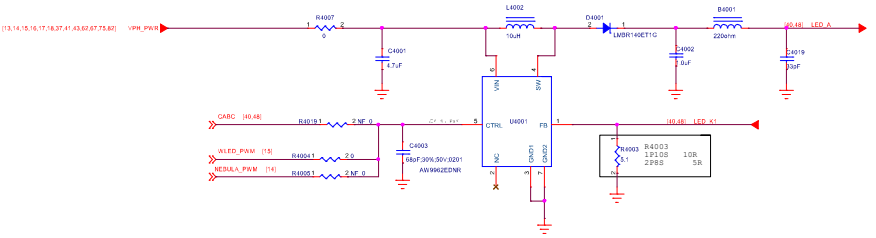
EARPHONE



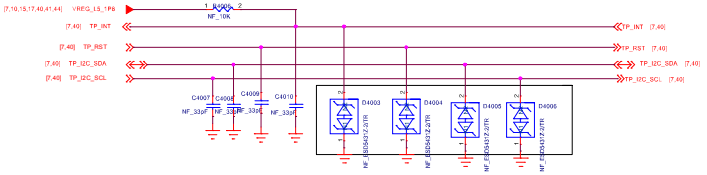
Earphone

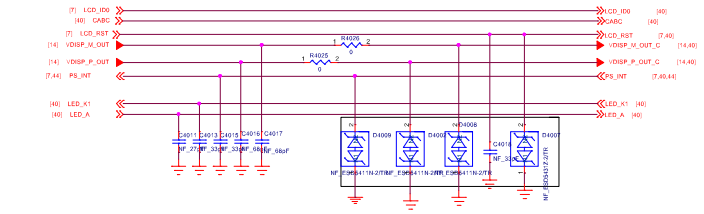
Title	39.Earphone	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 39 of 82

LCD-BACKLIGHT

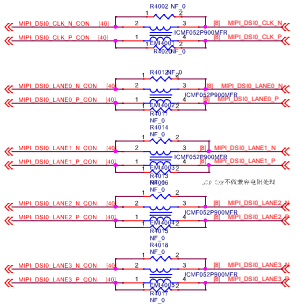


TP_INT上拉供电与TP_IOVCC保持一致；I2C也是如此；





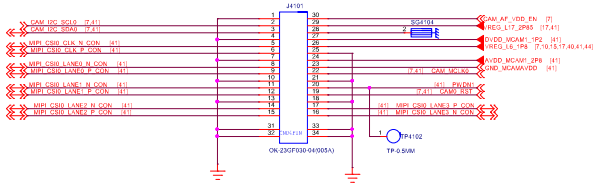
Common Mode Filter

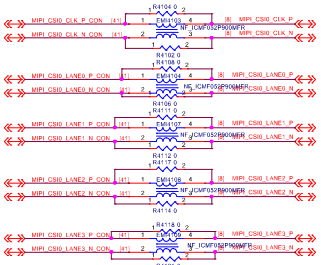


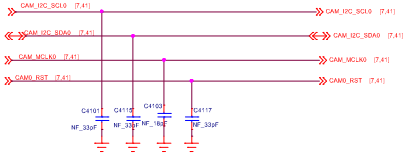
LCD/CTP IF

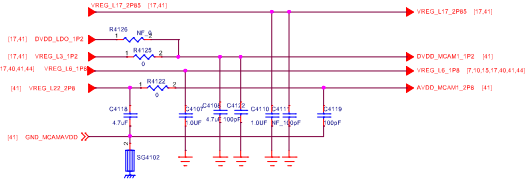
Title	40.LCD/CTP IF		REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164		Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER:	DESIGNER
Date:	Monday, March 25, 2019	Sheet	40 of 82

Main Camera

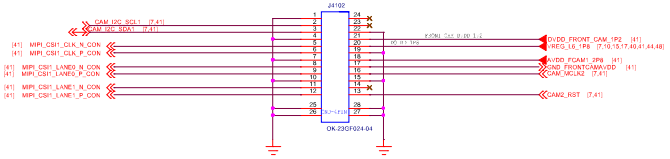


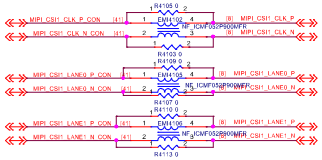


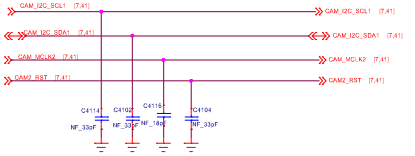


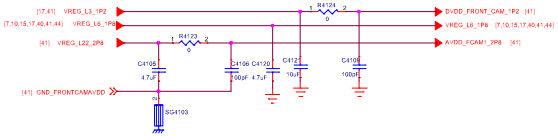


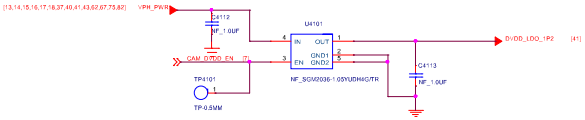
Front Camera







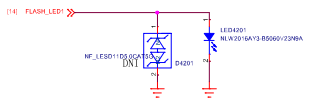




Camera IF

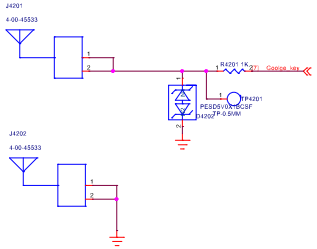
Title	41.Camera IF	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 41 of 82

Flash



Button indicator

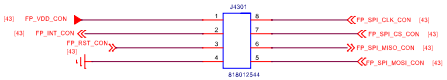
Resistor for testing RGB current

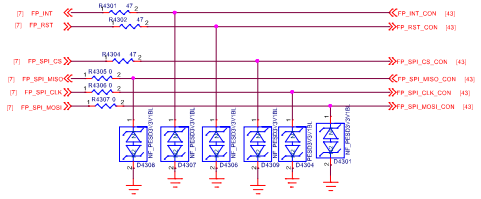


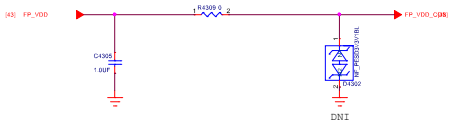
Flash/RGB

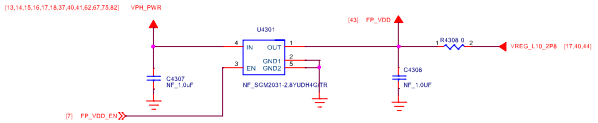
Title	42.Flash/RGB	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 42 of 82

Fingerprint CONNECT





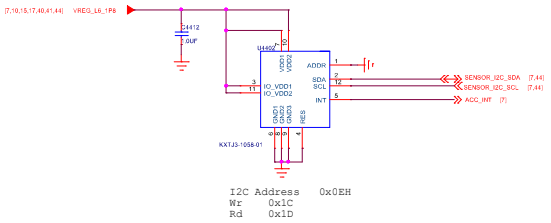




Fingerprint

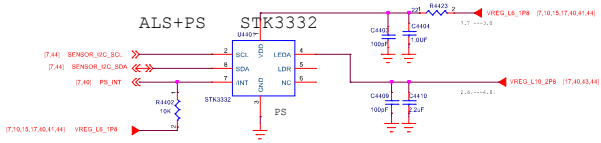
Title	43.Fingerprint	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 43 of 82

ACCELEROMETER

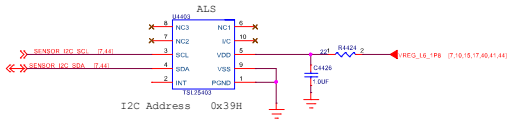


I2C Address 0x0EH
Wr 0x1C
Rd 0x1D

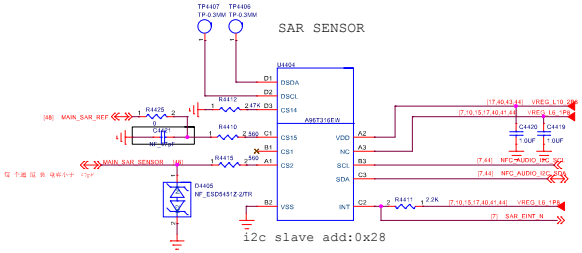
ALS/PROXIMITY SENSOR



I2C Address 0x47H



I2C Address 0x39H

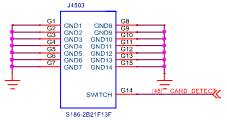


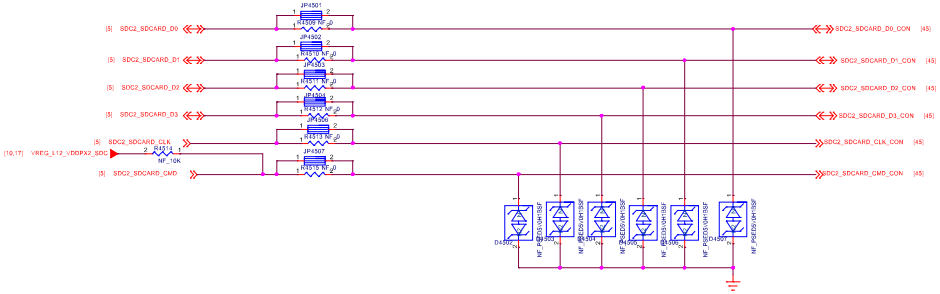
i2c slave add:0x28

Sensor

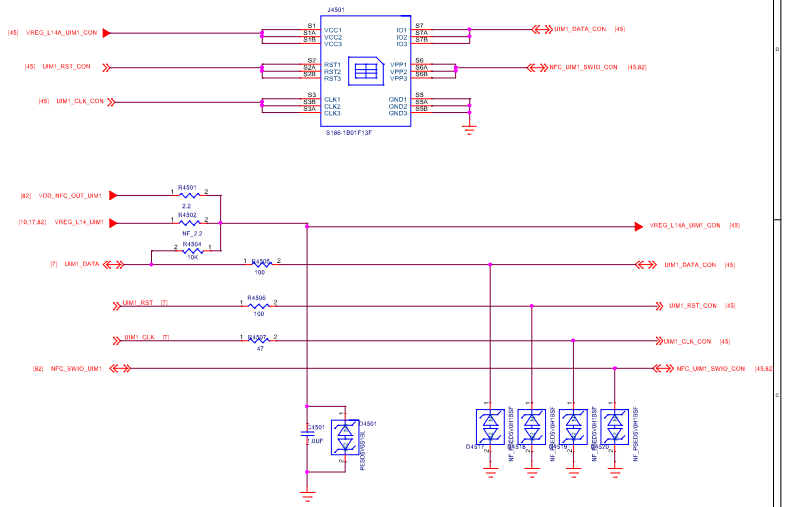
Title	44.Sensor	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 44 of 82

TF CARD

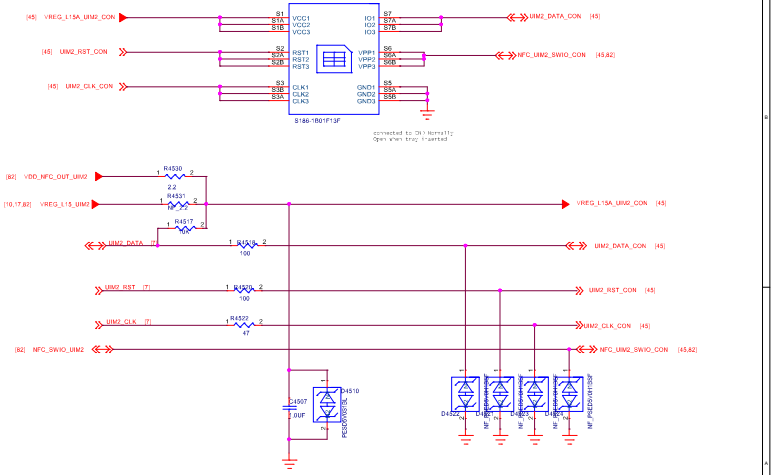




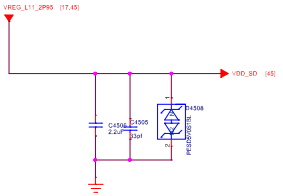
USIM1

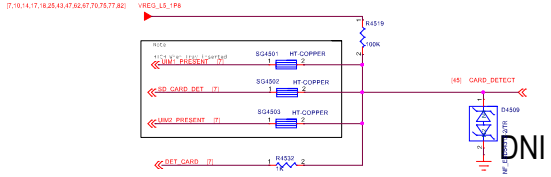


USIM2



DNI



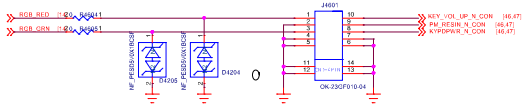


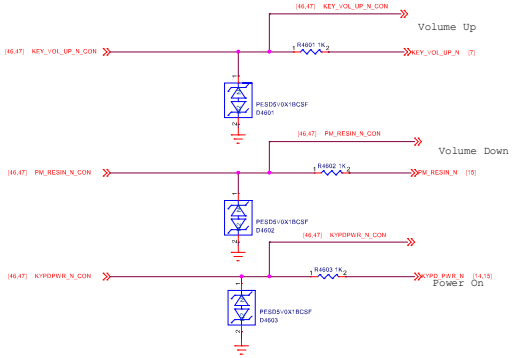
DNI

SIM/TF IF

Title	45.SIM/TF IF	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 45 of 82

Keys

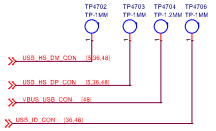




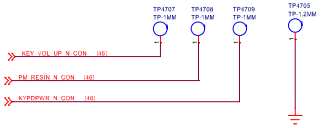
Sidekey

Title	46.Sidekey	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 46 of 82

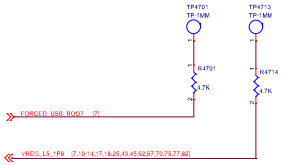
USB



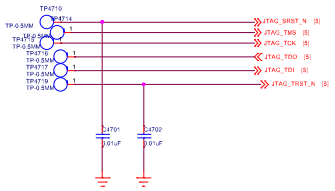
KEYS



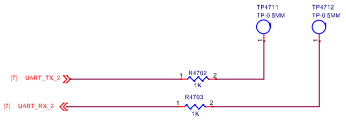
OTHERS



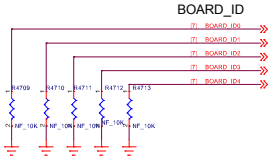
JTAG CONNECTOR



UART



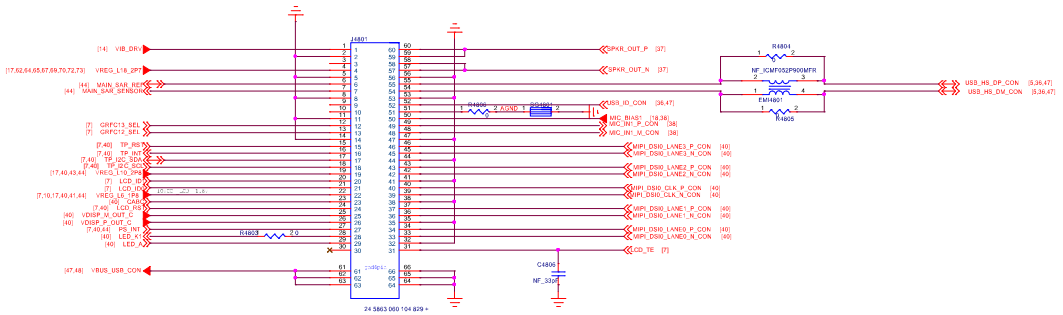
BOARD ID



Test point

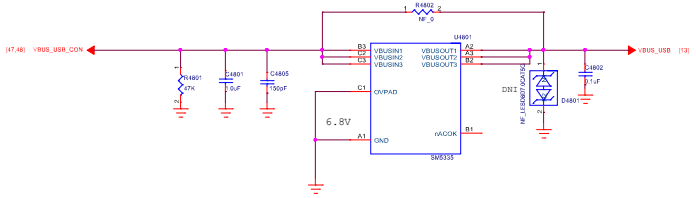
Title	47.Test point	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 47 of 82

Sub Board Connector



LCD-Connector

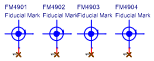
OVP



Sub PCB IF

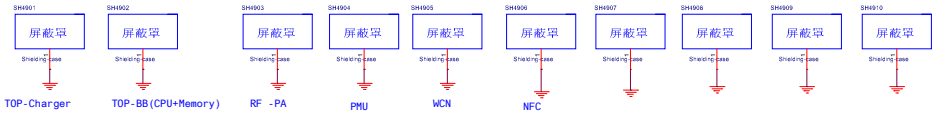
Title	48.Sub PCB IF	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size: D
DEPARTMENT: DEPARTMENT	DESIGNER: DESIGNER	
Date: Monday, March 25, 2019	Sheet 48 of 82	

MARK



BADMARK

SHIELDING



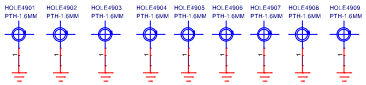
Waterproof

Waterproof

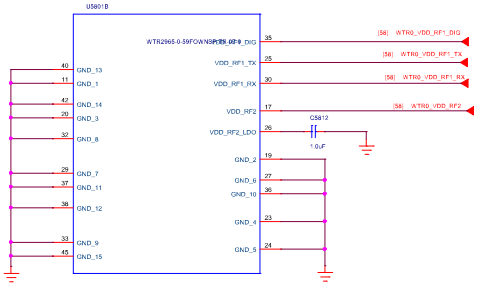
SN Label

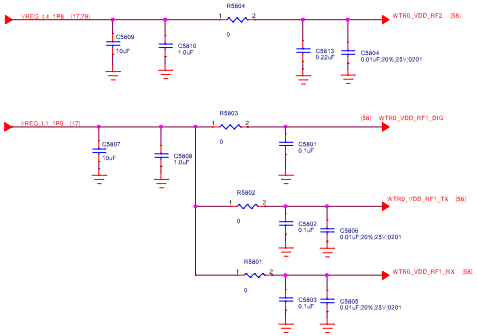
PCB

MIC LABLE

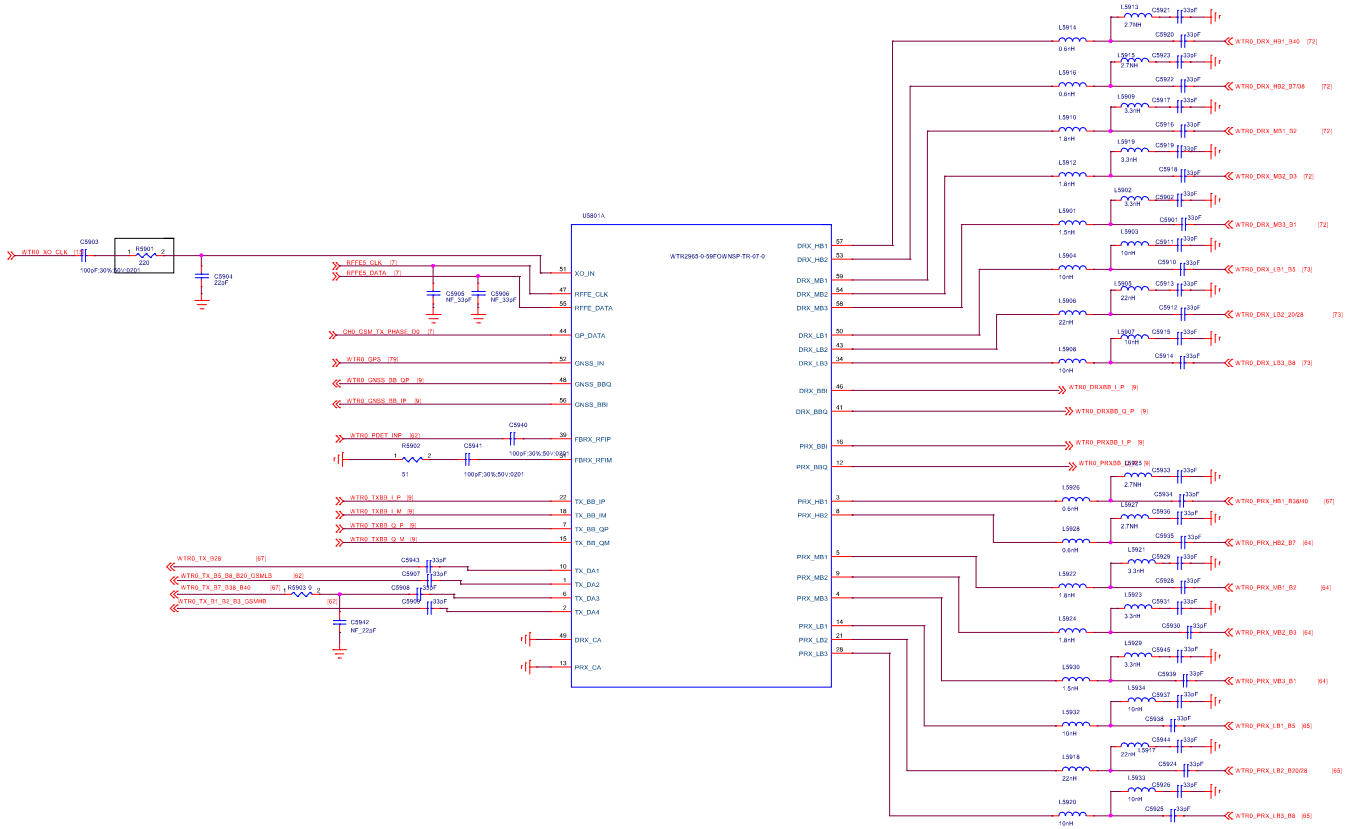


Title	49.Shielding	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 49 of 82





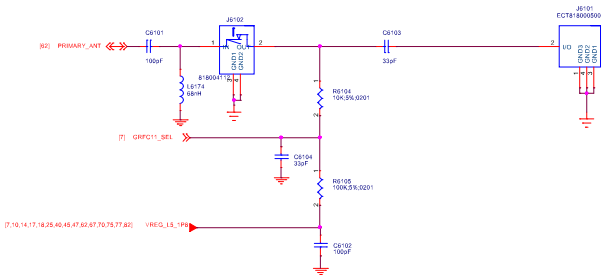
Title	58.WTR2965:PWR	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT: DEPARTMENT	DESIGNER: DESIGNER	
Date: Monday, March 25, 2019	Sheet 58 of 82	



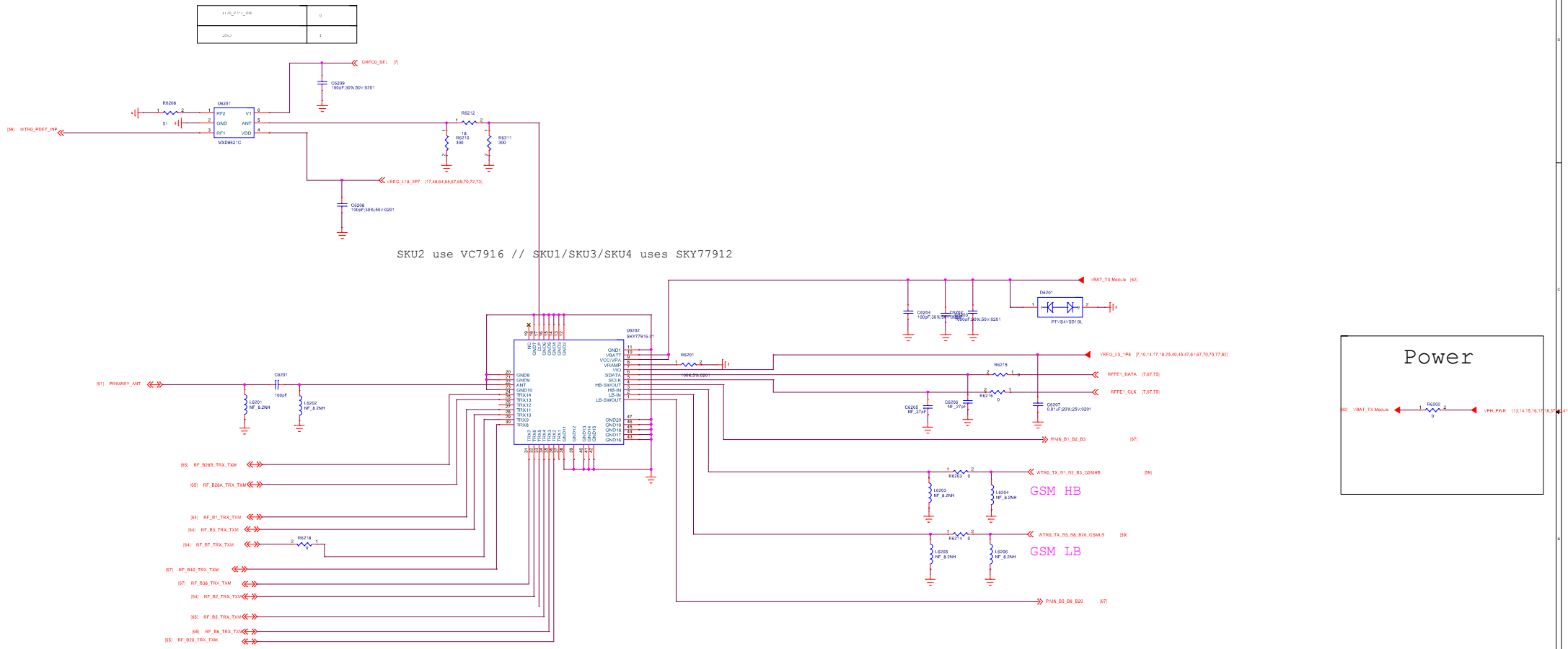
Note: A series DC-blocking capacitor is required on LNA trace to avoid direct connection of LNA input to GND

WTR2965:MSS

Title	59.WTR2965:MSS	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 59 of 82



Title	61.Primary Ant	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT: DEPARTMENT	DESIGNER: DESIGNER	
WINGTECH		
Date: Monday, March 25, 2019	Sheet 61 of 82	

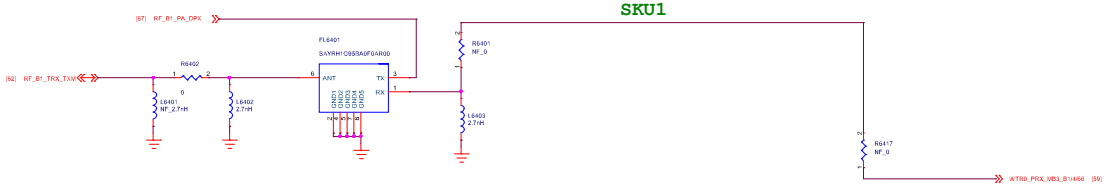


Primary ASM

Title	62.Primary ASM
REV:	V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164
Size	D
DEPARTMENT:	Wingtech-SZ
DESIGNER:	DESIGNER
Date:	Monday, March 25, 2019
Sheet	62 of 82

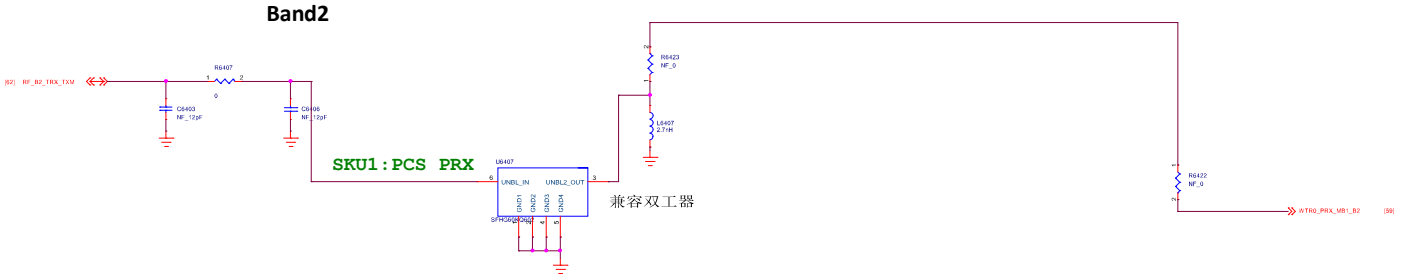
Band1

SKU1

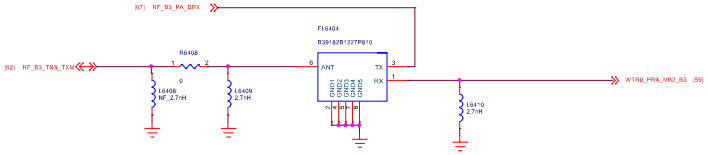


Band2

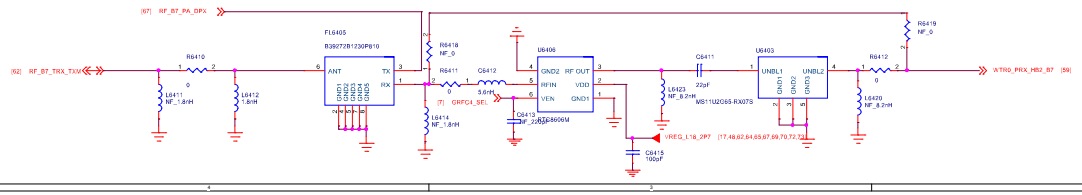
SKU1



Band3



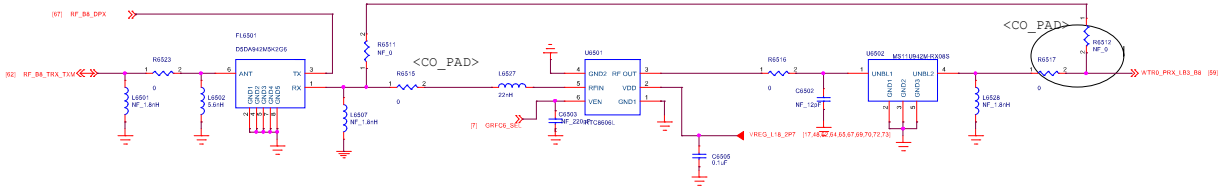
Band7



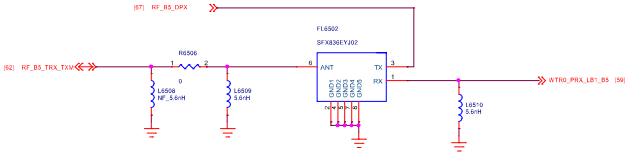
TRX_MHB

Title	64.TRX_MHB	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 64 of 82

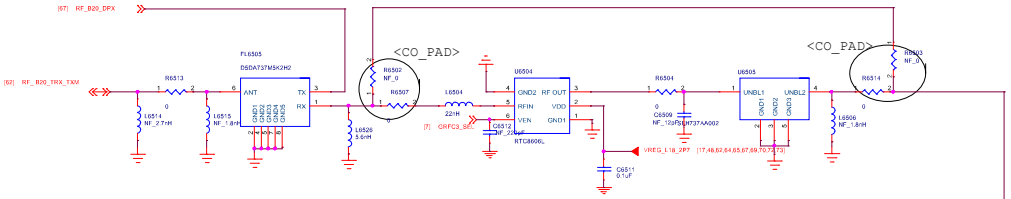
Band8



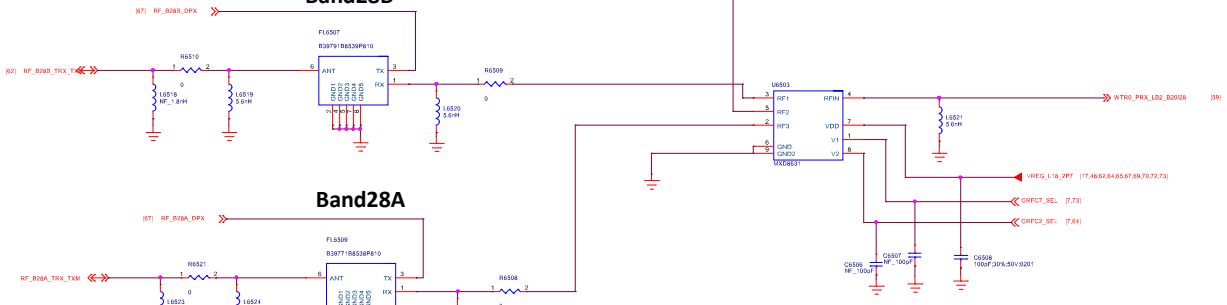
Band5



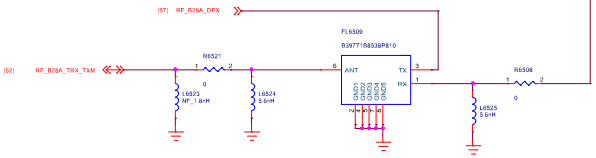
SKU1:Band 20



Band28B

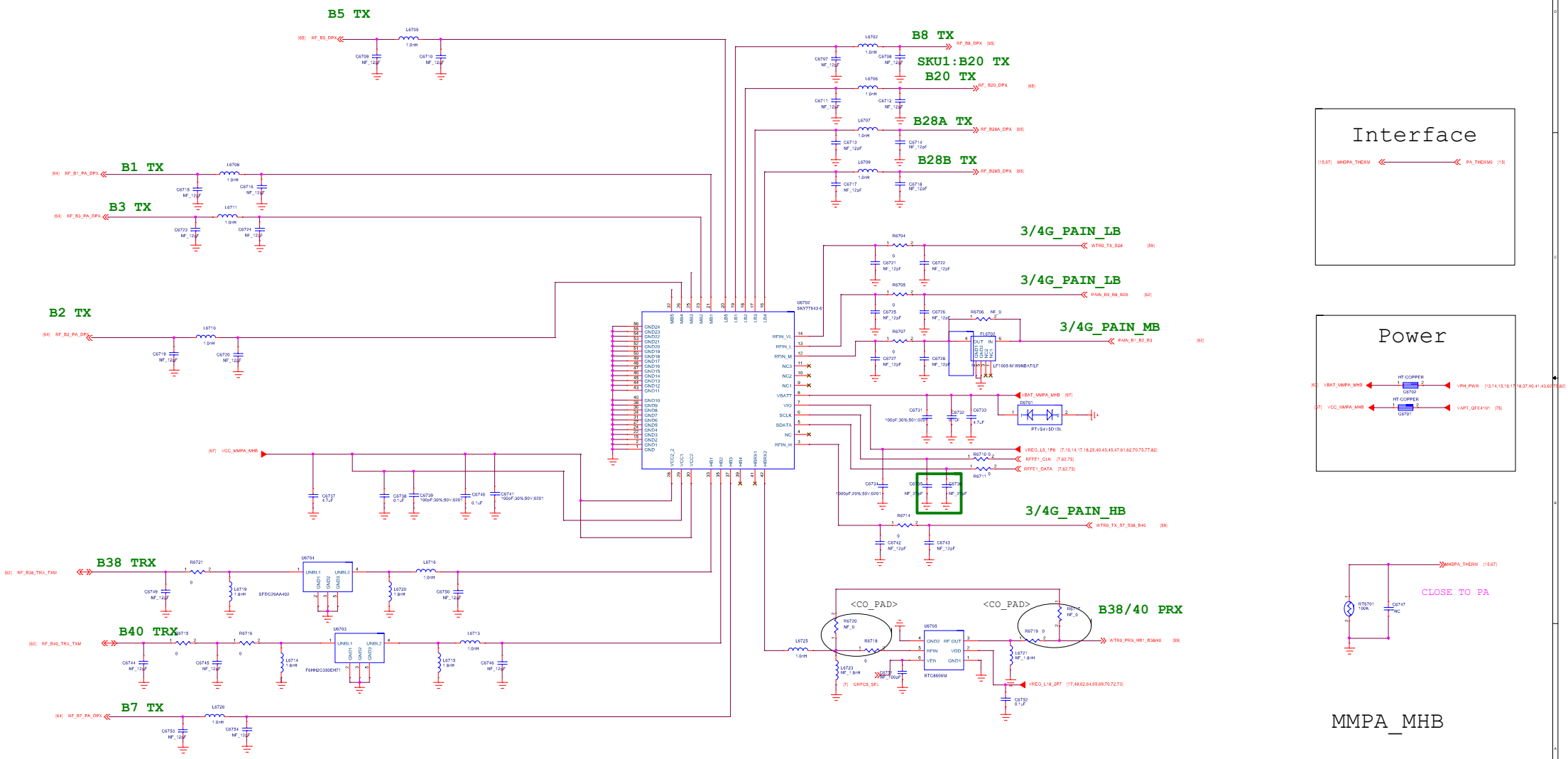


Band28A

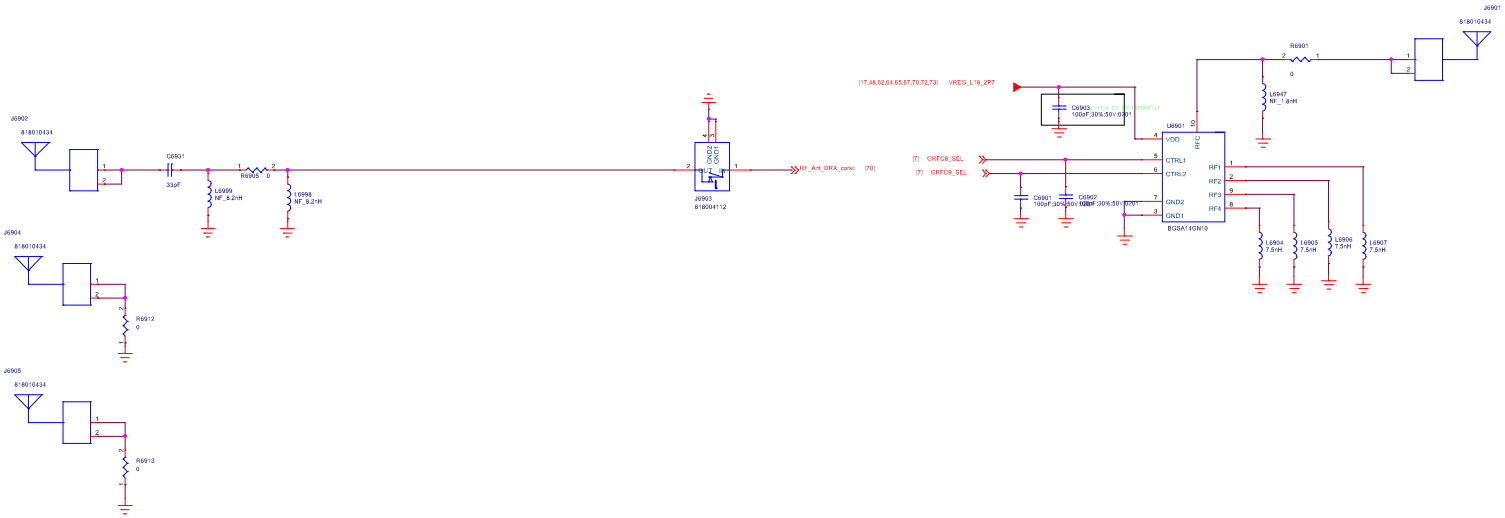


TRX_LB

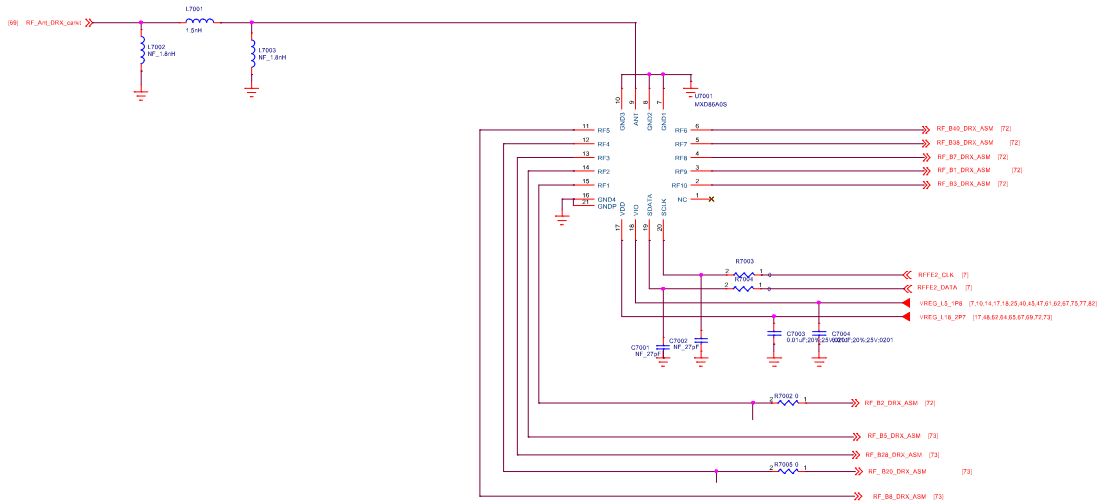
Title	65.TRX_LB		REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164		Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER:	DESIGNER
Date:	Monday, March 25, 2019	Sheet	65 of 82



Title	67.MMPA_MHB	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 67 of 82



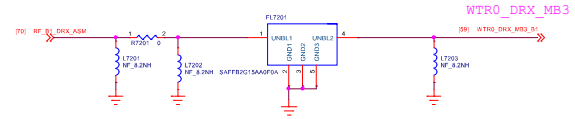
Title	69.Diversity Ant	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT: DEPARTMENT	DESIGNER: DESIGNER	
Date: Monday, March 25, 2019	Sheet 69 of 82	



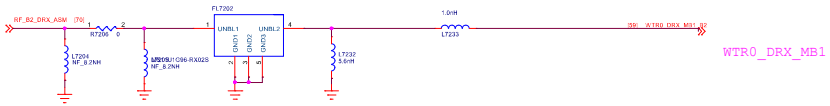
Diversity ASM

Title	70.Diversity ASM		REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164		Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER:	DESIGNER
Date:	Monday, March 25, 2019	Sheet	70 of 82

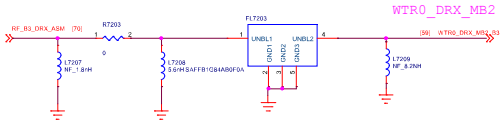
Band 1



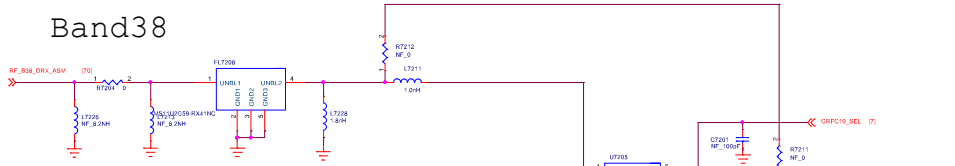
Band 2



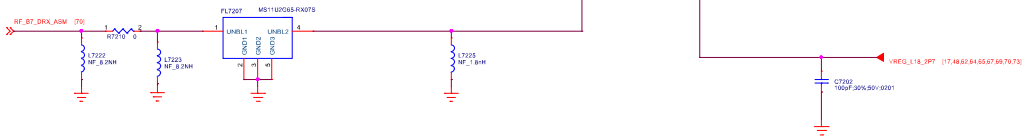
Band 3



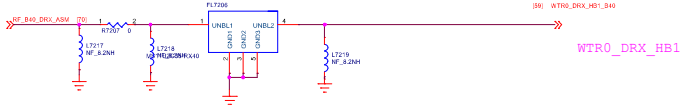
Band38



Band7



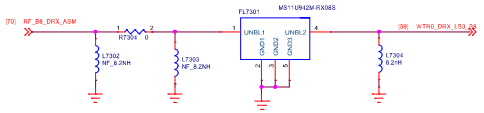
Band40



DRX_MHB

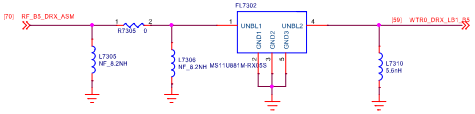
Title	72.DRX_MHB		REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164		Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER:	DESIGNER
Date:	Monday, March 25, 2019	Sheet	72 of 82

Band 8



WTR0_DRX_LB3

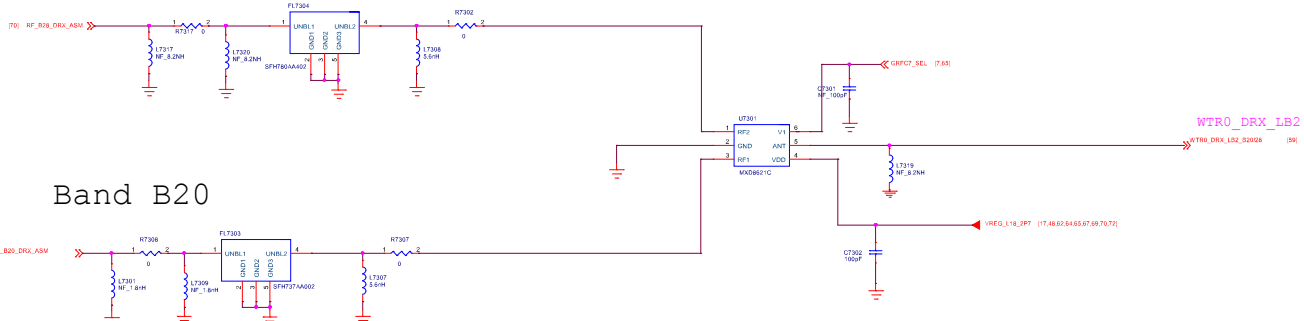
Band 5



WTR0_DRX_LB1

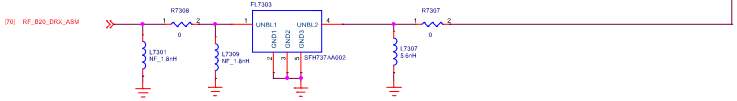
SKU1 NF switch

Band 28



WTR0_DRX_LB2

Band B20



DRX_LB

Title	73.DRX_LB	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 73 of 82

RF Port

Interface

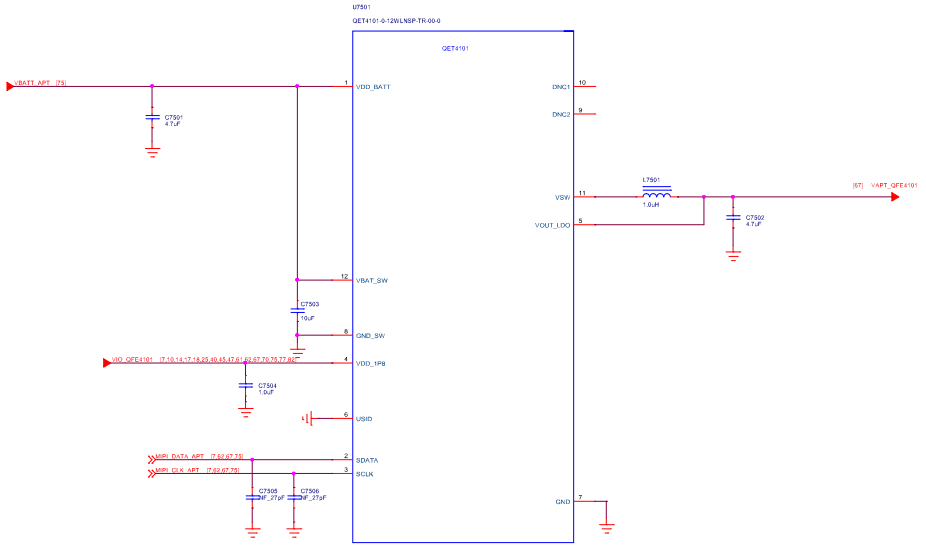
[7,62,67,75] MIPI_DATA_APT — RFFE1_DATA [7,62,67]

[7,62,67,75] MIPI_CLK_APT — RFFE1_CLK [7,62,67]

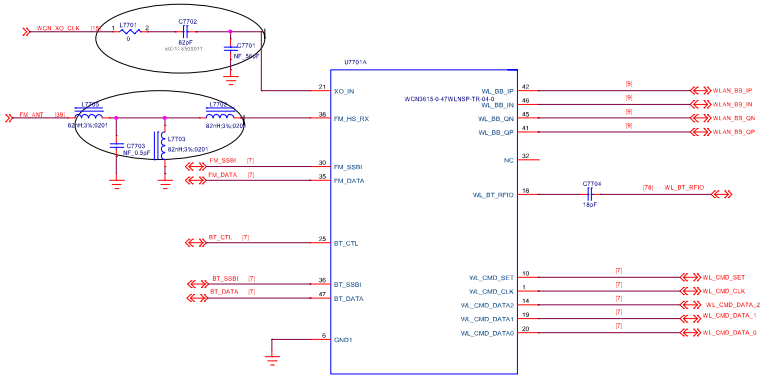
Power

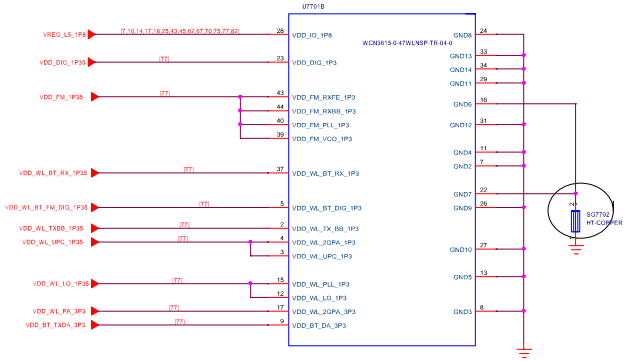
[7,10,14,17,18,25,40,45,47,61,62,67,70,75,77,82] VIO_QFE4101 — VREG_L3_1P8 [7,10,14,17,18,25,40,45,47,61,62,67,70,75,77,82]

[75] VBATT_APT — HT.COPPER 1 2 G7502 — VPH_PWR [13,14,15,16,17,18,37,40,41,43,62,67,82]



Title	75.ET_APT	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT: DEPARTMENT	DESIGNER: DESIGNER	
Date: Monday, March 25, 2019	Sheet 75 of 82	

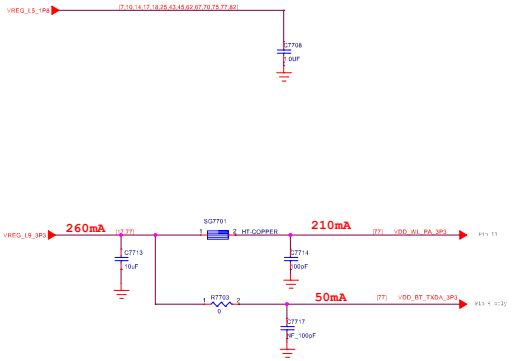


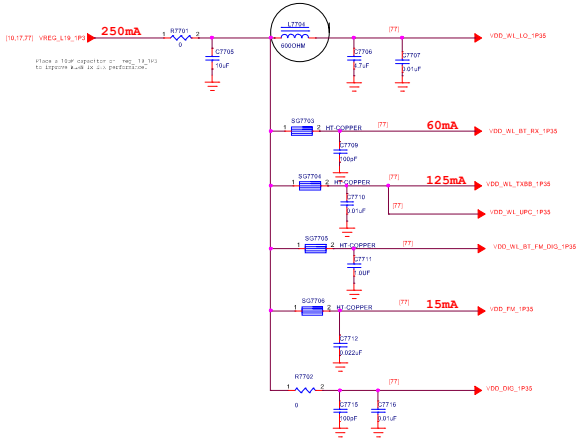


RF Port

Interface

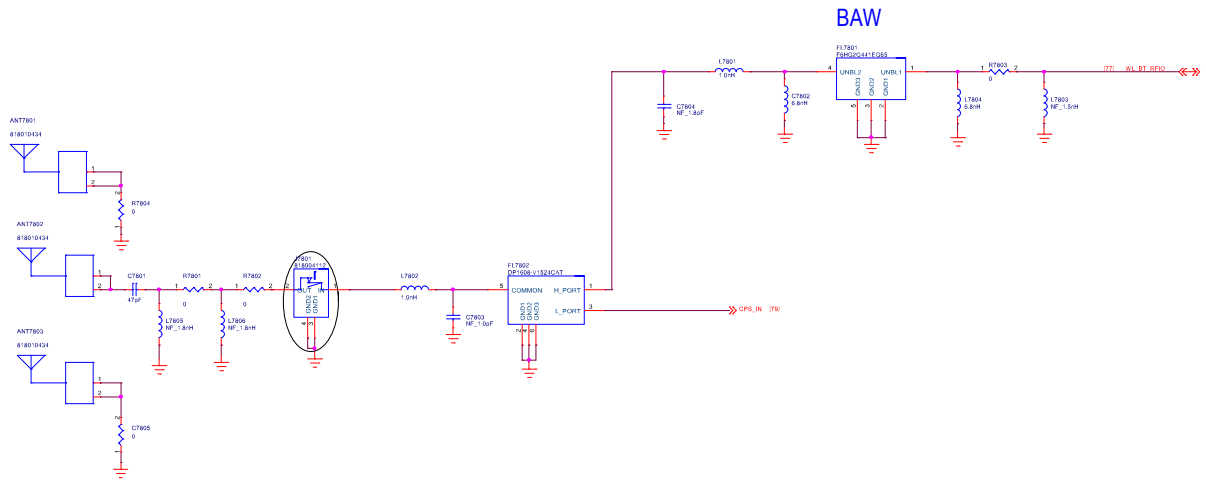
Power





WCN3615_IC

Title	77.WCN3660B_IC	REV:	V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size	D
DEPARTMENT:	Wingtech-SZ	DESIGNER:	DESIGNER
Date:	Monday, March 25, 2019	Sheet	77 of 82



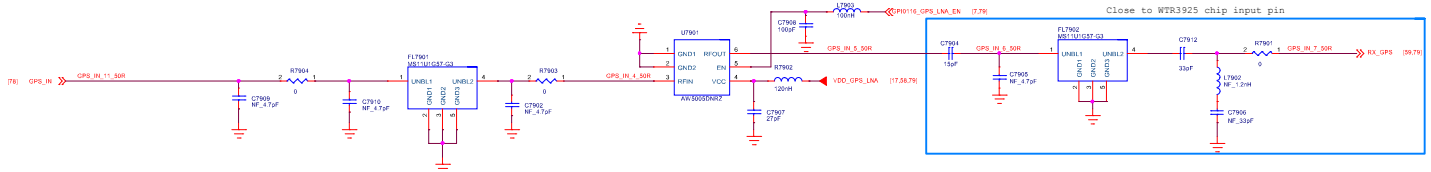
RF Port

Interface

Power

WIFI_RF

Title	78.WIFI_RF	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	Wingtech-SZ	DESIGNER: DESIGNER
Date:	Monday, March 25, 2019	Sheet 78 of 82



RF Port

[59,79] RX_GPS → WTR0_GPS [59]

Interface

[7,79] GPIO116_GPS_LNA_EN → EXT_GPS_LNA_EN [7]

Power

[17,58,79] VDD_GPS_LNA ← VREG_L4_1P8 [17,58]

Title	79.GPS	REV: V10
DOCUMENT NO.:	80626_1_12 SKU1_HA1 TA1164	Size D
DEPARTMENT:	DEPARTMENT	DESIGNER: DESIGNER
Date: Monday, March 25, 2019	Sheet 79 of 82	