

MSM8x26 GPIO Configuration For QRD8x26

GPIO_0	NC	GPIO_41	WCSS_WLAN_DATA1	GPIO_82	CH0_PA_RANGE1
GPIO_1	NC	GPIO_42	WCSS_WLAN_DATA0	GPIO_83	CH0_TXM_CTL1_SW1
GPIO_2	NC	GPIO_43	WCSS_WLAN_SET	GPIO_84	CH0_TXM_CTL2_SW0
GPIO_3	NC	GPIO_44	WCSS_WLAN_CLK	GPIO_85	CH0_GSM_PA_ON_HB
GPIO_4	NC	GPIO_45	WCSS_FM_SSBI	GPIO_86	CH0_GSM_PA_ON_LB
GPIO_5	NC	GPIO_46	WCSS_FM_SDI	GPIO_87	TX_GTR_THRESH
GPIO_6	I2C2_SDA_SENS	GPIO_47	WCSS_BT_CTL	GPIO_88	NC
GPIO_7	I2C2_SCL_SENS	GPIO_48	WCSS_BT_DAT_STB	GPIO_89	NC
GPIO_8	UART3_TX	GPIO_49	NC	GPIO_90	NC
GPIO_9	UART3_RX	GPIO_50	NC	GPIO_91	NC
GPIO_10	I2C6_SDA_NFC	GPIO_51	NC	GPIO_92	NC
GPIO_11	I2C6_SCL_NFC	GPIO_52	NC	GPIO_93	NC
GPIO_12	NC	GPIO_53	UIM2_DATA	GPIO_94	NC
GPIO_13	MSM_HS_DET	GPIO_54	UIM2_CLK	GPIO_95	CH0_GSM_TX_PHASE_D0
GPIO_14	NC	GPIO_55	UIM2_RST	GPIO_96	CH0_GSM_TX_PHASE_D1
GPIO_15	CAM_1V8_EN	GPIO_56	NC	GPIO_97	NC
GPIO_16	CTP_RST_N	GPIO_57	UIM1_DATA	GPIO_98	NC
GPIO_17	CTP_INT	GPIO_58	UIM1_CLK	GPIO_99	NC
GPIO_18	I2C5_SDA_CTP	GPIO_59	UIM1_RST	GPIO_100	NC
GPIO_19	I2C5_SCL_CTP	GPIO_60	LCD_ID	GPIO_101	CH0_SSBI_PRX
GPIO_20	NFC_DISABLE_N	GPIO_61	BATT_UIM_ALARM	GPIO_102	CH0_SSBI_TX_GPS
GPIO_21	NFC_INT_N	GPIO_62	NC	GPIO_103	NC
GPIO_22	SPI_CS_EHT	GPIO_63	ACCL_INT1_N	GPIO_104	NC
GPIO_23	NC	GPIO_64	NC	GPIO_105	GPS_ELNA_EN
GPIO_24	DSL_LCD_TE	GPIO_65	ALSP_INT_N	GPIO_106	VOLUME+
GPIO_25	DSL_LCD_RST	GPIO_66	MAG_INT_N	GPIO_107	VOLUME-
GPIO_26	CAM_MCLK0	GPIO_67	MSM_CODEC_REF_CLK	GPIO_108	NC
GPIO_27	NC	GPIO_68	CEDEC_INT1_N	GPIO_109	NC
GPIO_28	CAM2_RST_N	GPIO_69	NC	GPIO_110	NC
GPIO_29	I2C0_SDA_CAM	GPIO_70	CODEC_SLIMBUS_CLK	GPIO_111	NC
GPIO_30	I2C0_SCL_CAM	GPIO_71	CODEC_SLIMBUS_DATA	GPIO_112	NC
GPIO_31	NC	GPIO_72	CODEC_RST_N	GPIO_113	FORCE_USB_BOOT
GPIO_32	FLASH_STROBE_TRIG	GPIO_73	FORT_CAM_ID	GPIO_114	NC
GPIO_33	NC	GPIO_74	BACK_CAM_ID	GPIO_115	NC
GPIO_34	NC	GPIO_75	CH0_PA_ON4_B1	GPIO_116	NC
GPIO_35	CAM2_STANDBY	GPIO_76	NC	GPIO_117	NC
GPIO_36	CAM1_STANDBY	GPIO_77	WTR0_GSM_TDS_SEL	GPIO_118	NC
GPIO_37	CAM1_RST_N	GPIO_78	CH0_PA_ON1_B8	GPIO_119	NC
GPIO_38	NC	GPIO_79	CH0_TXM_CTL0_SPDT	GPIO_120	NC
GPIO_39	WCSS_BT_SSBI	GPIO_80	CH0_WTR_RF_ON		
GPIO_40	WCSS_WLAN_DATA2	GPIO_81	CH0_PA_RANGE0 (BOOT_CONFIG_0)		

PM8026 GPIO/MPP Configuration For QRD8x26

GPIO_1	AUDIO_REF_CLK (DIVCLK1)	MPP_1	VREF_PX
GPIO_2	EXT_5VBOOST_EN	MPP_2	HR_LED_SNK
GPIO_3	BBCLK2_EN	MPP_3	VREF_LDO
GPIO_4	BATT_UICC_ALARM	MPP_4	LED1_SINK
GPIO_5	FLASHNOW	MPP_5	PA2_THERM
GPIO_6	CABC_WLED	MPP_6	LED2_SINK
GPIO_7	TX_GTR_THRESH	MPP_7	HWID
GPIO_8	SYS_BOOST_FORCE_BYP	MPP_8	PA1_THERM

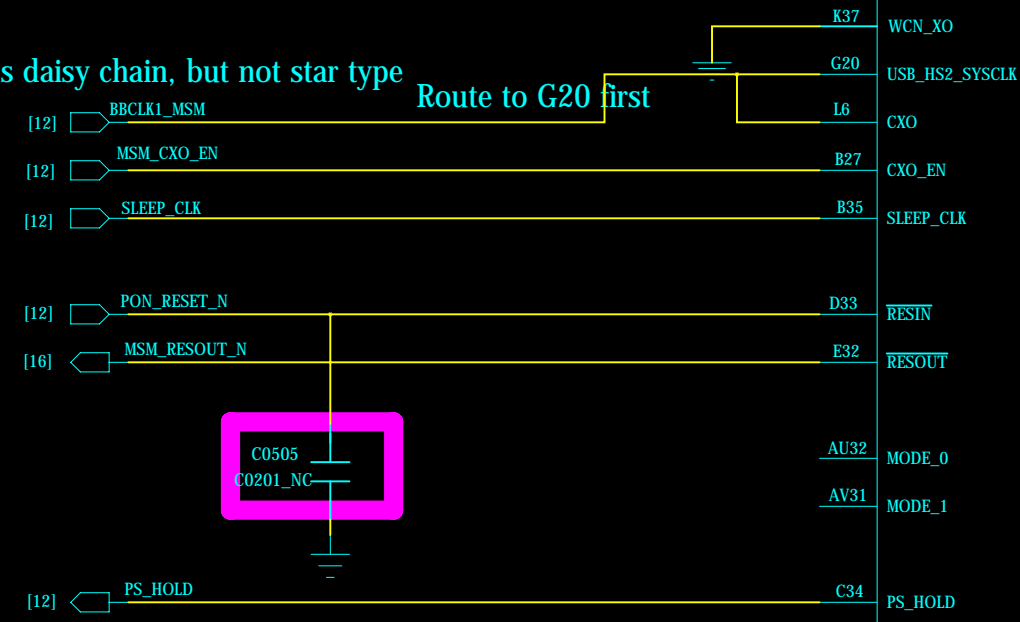
I2C Address List For QRD8x26

I2C GPIO	Device	MPN	Write Address	Read Address
GPIO[6:7]	Accelerometer	BMA222E	0x31	0x30
	Magnetometer	HSCDTD007A	0x19	0x18
	Gyroscope	MPU-3050C	0xD1	0xD0
	ALS/Proximity	TMD27713T	0x73	0x72
GPIO[18:19]	Touch Screen	S3202	0x41	0x40
GPIO[29:30]	Front Camera	OV9724	0x41	0x40
	Rear Camera	OV8825	0x6D	0x6C

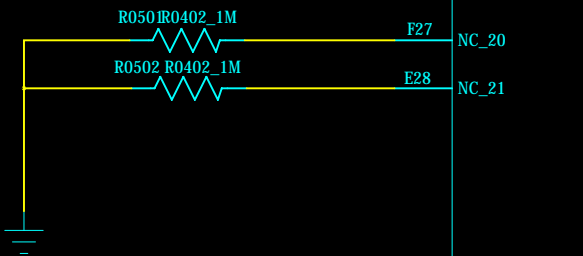
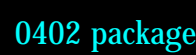
Interrupt List For QRD8x26

GPIO	2018-03-21	Description	State
GPIO_11	MSM_HS_DET	Headset Plug In Detection	Active Low
GPIO_17	CTP_INT	Interrupt From CTP Sensor	Default Low /Open Drain
GPIO_38	SD_CARD_DET_N	SD Card Insert Detection	Insert Low/Remove High
GPIO_49	ACCL_INT2_N	Interrupt2 From Accelerometer	Default High/Push-Pull
GPIO_63	ACCL_INT1_N	Interrupt1 From Accelerometer	Default High/Push-Pull
GPIO_64	GYRO_INT_N	Interrupt From Gyroscope	Default High/Push-Pull
GPIO_65	ALSP_INT_N	Interrupt From ALS/Proximity	Active Low /Open Drain
GPIO_66	MAG_INT_N	Interrupt From Magnetometer	Active High /Push-pull
GPIO_68	CODEC_INT1_N	Interrupt From CODEC	PA1_THERM
GPIO_115	ETH_INT_N	Interrupt From Ethernet Driver	Active Low /Push-pull

		Size	2018-03-21	
		Date:	of	



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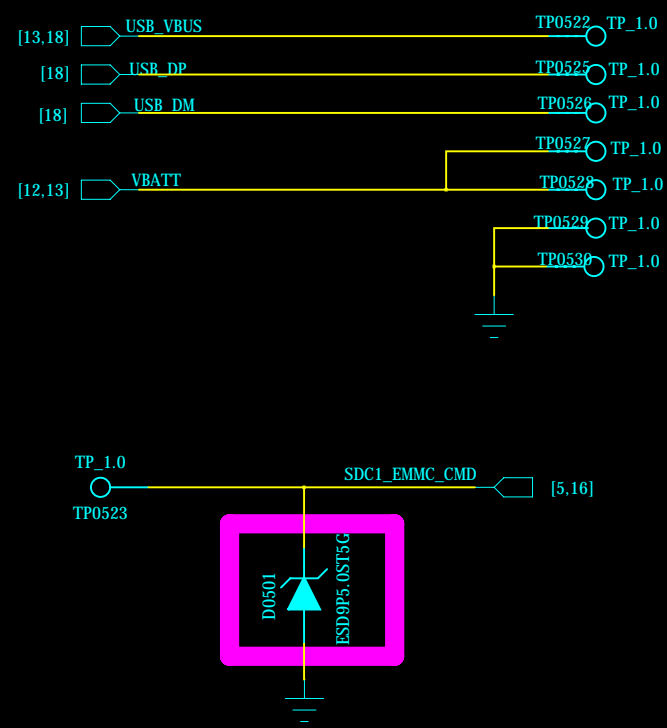


C0503 and C0504 need to be placed with 10mm from MSM

Note: Place resistors close to MSM

	R0511
2 die DDR memory	0R
1 die DDR memory	NC

GND Screw



Shielding Frame

Test Point

MIPI CSIO-MAIN CAM

MIPI CSI1-SUB CAM

MIPI CSI signal: 100 ohm differential impedance routing

WTR0 Primary RX

WTR0 Diversity RX

ET UNUSED

MIPI DSIO-LCD

TXDAC1 and ETDAC Connections Under Different RF Configurations						
All use cases below use TXDAC2 dedicated for WTR0 ET can only be used with primary RE-path (WTR0 path)						
IQ Usage Scenarios	ET Usage	VDD_A2 (pin AD9)	TX_DAC1_IQ	ETDAC_PIM	TX_DAC1_IREF	TX_DAC1_VREF
Single WTR designs such as ATT CSFB (with one WTR1625L) or Carrier Aggregation (CA) with WTR1625L+WFR1620						
TX_DAC1_IQ Unused	ET Unused	* GND	GND	Floating	GND	GND
TX_DAC1_IQ Unused	ET Used	PM8926 VREG_L7	GND	QFE1100 AMP_INP/IM	PM8926 VREG_L7	PM8926 MPP_03
Two WTR designs such as SVLTE (WTR1625L+WTR1625) or DSDA/SGLTE (WTR1605L/WTR1625L+WTR2100)						
TX_DAC1_IQ Used	ET Unused	PM8926 VREG_L7	WTR1_IQ	Floating	WTR1_DAC_IREF	PM8926 MPP_03
TX_DAC1_IQ Used	ET Used	PM8926 VREG_L7	WTR1_IQ	QFE1100 AMP_INP/IM	WTR1_DAC_IREF	PM8926 MPP_03
* Note: DNI R2998, remove C757 and ground AD9.						

MSM8926



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OPTION1	PON sequence	
GND	Default PON sequence	
OPEN	Reserved for alternate PON sequence. Currently not defined.	
VDD	N/A – Note choosing this option will force the PMIC to shut down.	
OPTION2	PMIC v1.0	PMIC v2.0/v2.1
GND	Reserved	USB CVP threshold set to 6.5 V.
OPEN	Reserved	USB CVP threshold set to 10.5 V. (Use this if supporting wireless charging.)
VDD	N/A	

**INPUT AND OUTPUT CAP
SHOULD DIRECTLY CONNECTED**

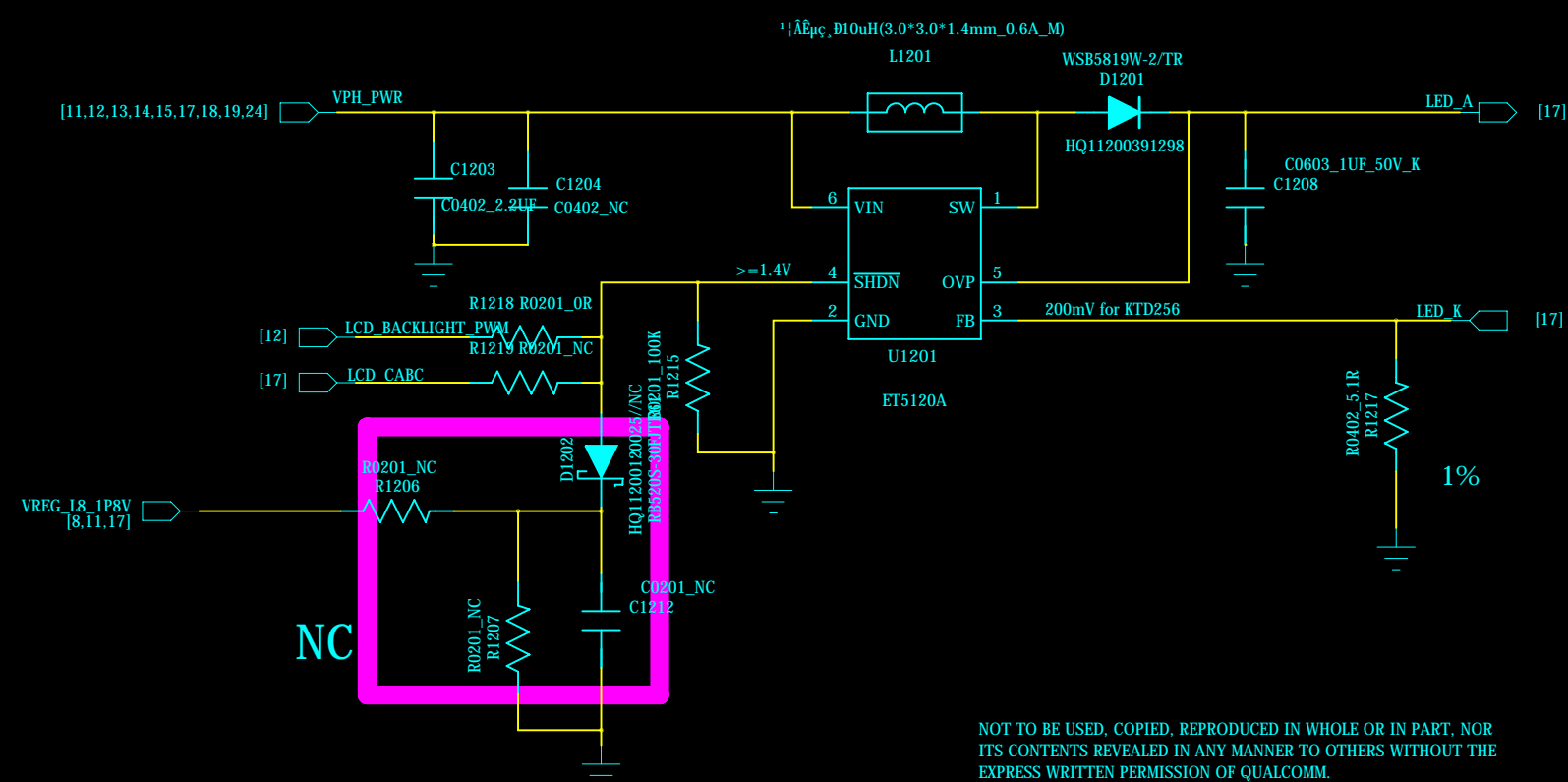
40mA current sink ability

Modified reference to MTP design

NOTE:

If not using external 10m Ohm Rsnspopulate a 0 Ohm resistor in its place to tie BMS_CSP and BMS_CSN pins to VBATT

External 10m Ohm Rsns is required for all PM8926 with RR code=06 and below



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Layout reference to 80-VP447-10f-p8 p9

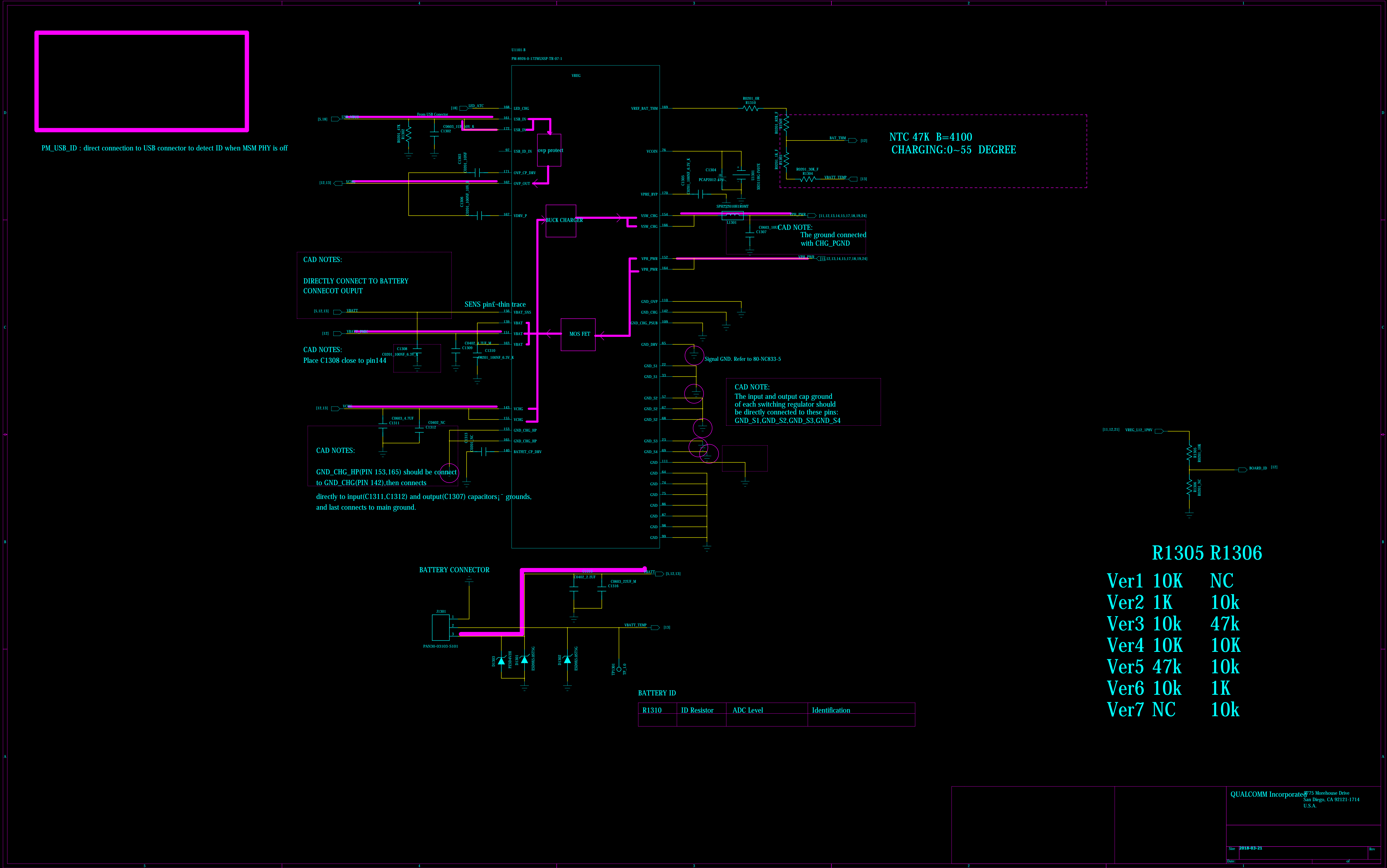
Changed to XO+single Thermisor
Reference to 80-VP447-7 80-VP447-10

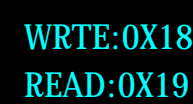
	- ÒAcXO	$\text{V}_6\text{O}_{13}\text{XO}_4\text{F}_2\text{A}^-\text{H}_2\text{F}^{\oplus}$
R1220	NC	OR
R1221	OR	NC
C1211	100NF	NC
C1212	10NF	NC

MPP Caution:

MPP 2,4,5,6,7,8 can all exhibit a glitch of >3V upon battery insertion or PON

It does not affect our internal designs because these are all connected to voltage dividers or LED cathodes.

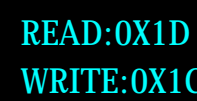


$E_{\frac{3}{4}} \approx 1.8 \text{ V}_{\mu\text{A}} \approx 0.4$ 

Read 0 0 0 1 1 1 1 1: 0x1FH

G-sensor

AK8963C//YAS533



MB

0

1

COMPASS

Gyro

AP3216D //STK3310

ALS+PS



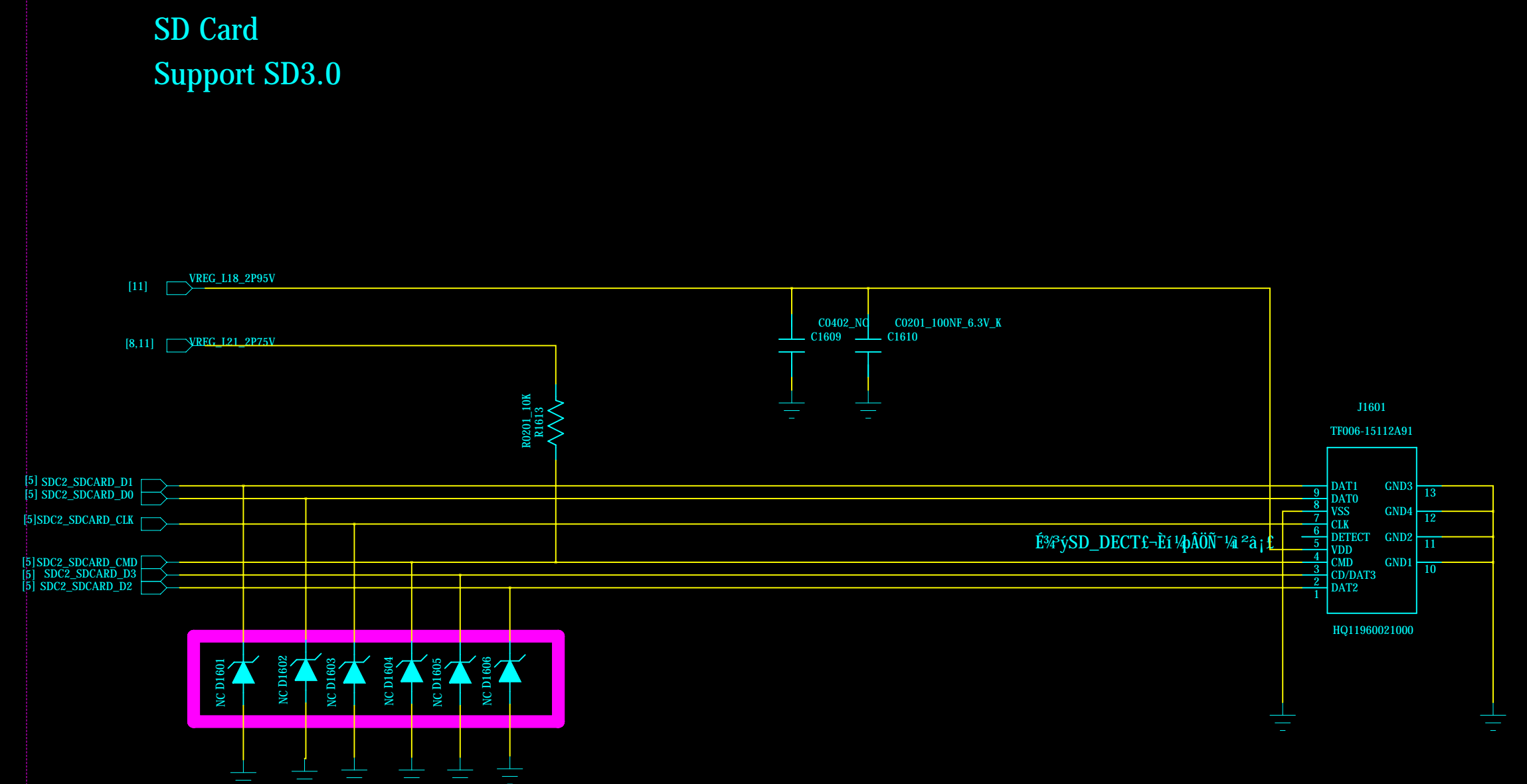
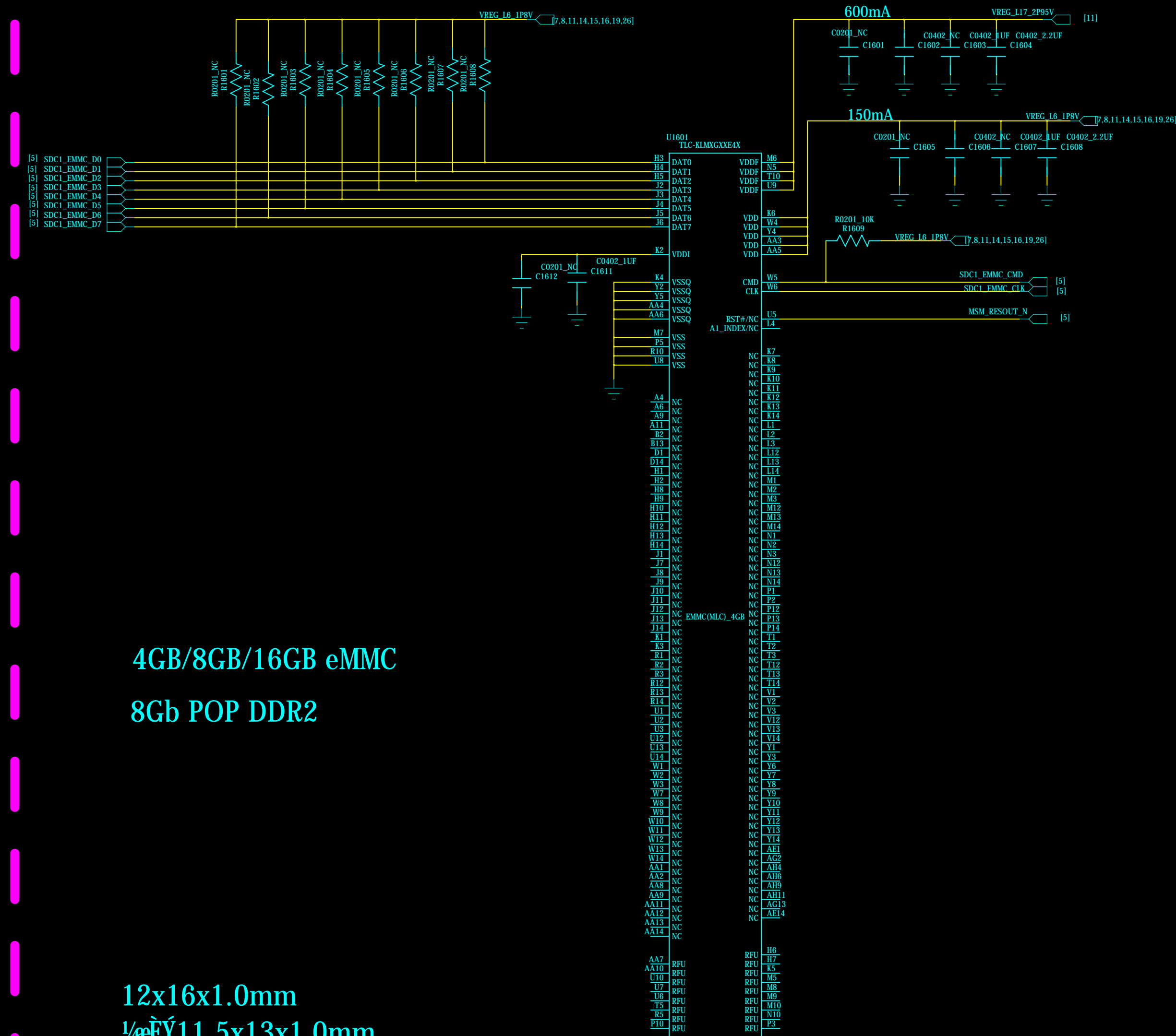
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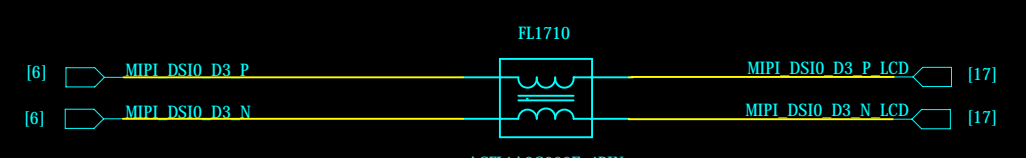
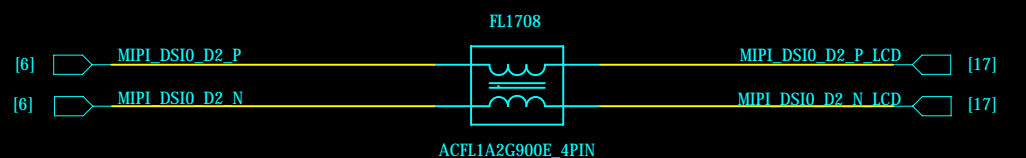
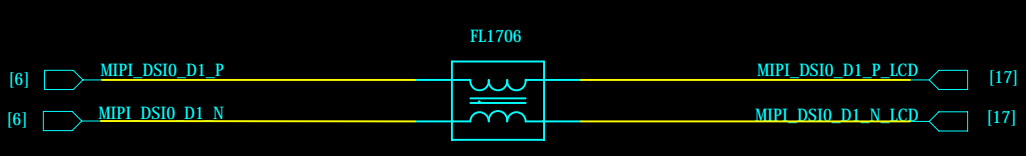
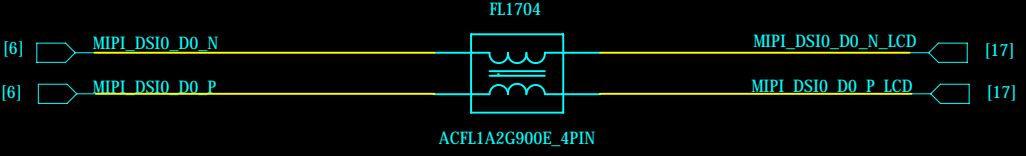
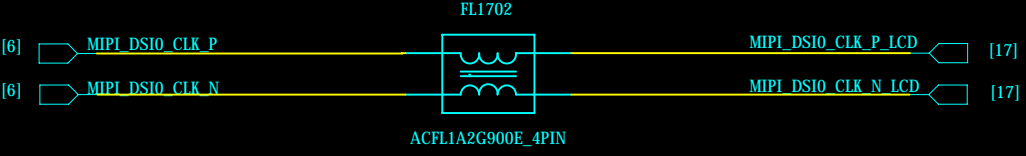
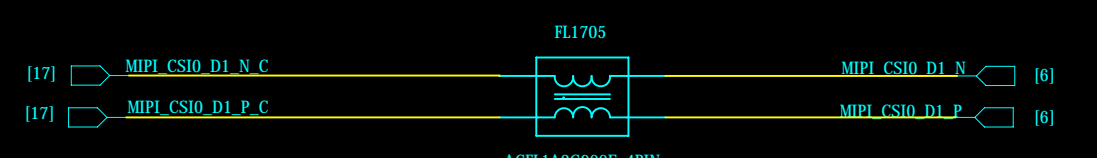
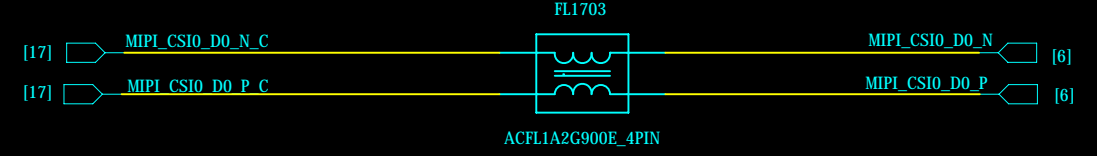
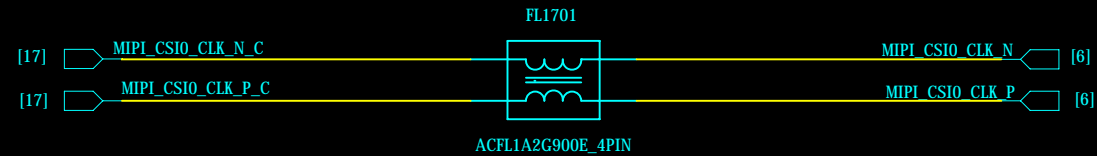
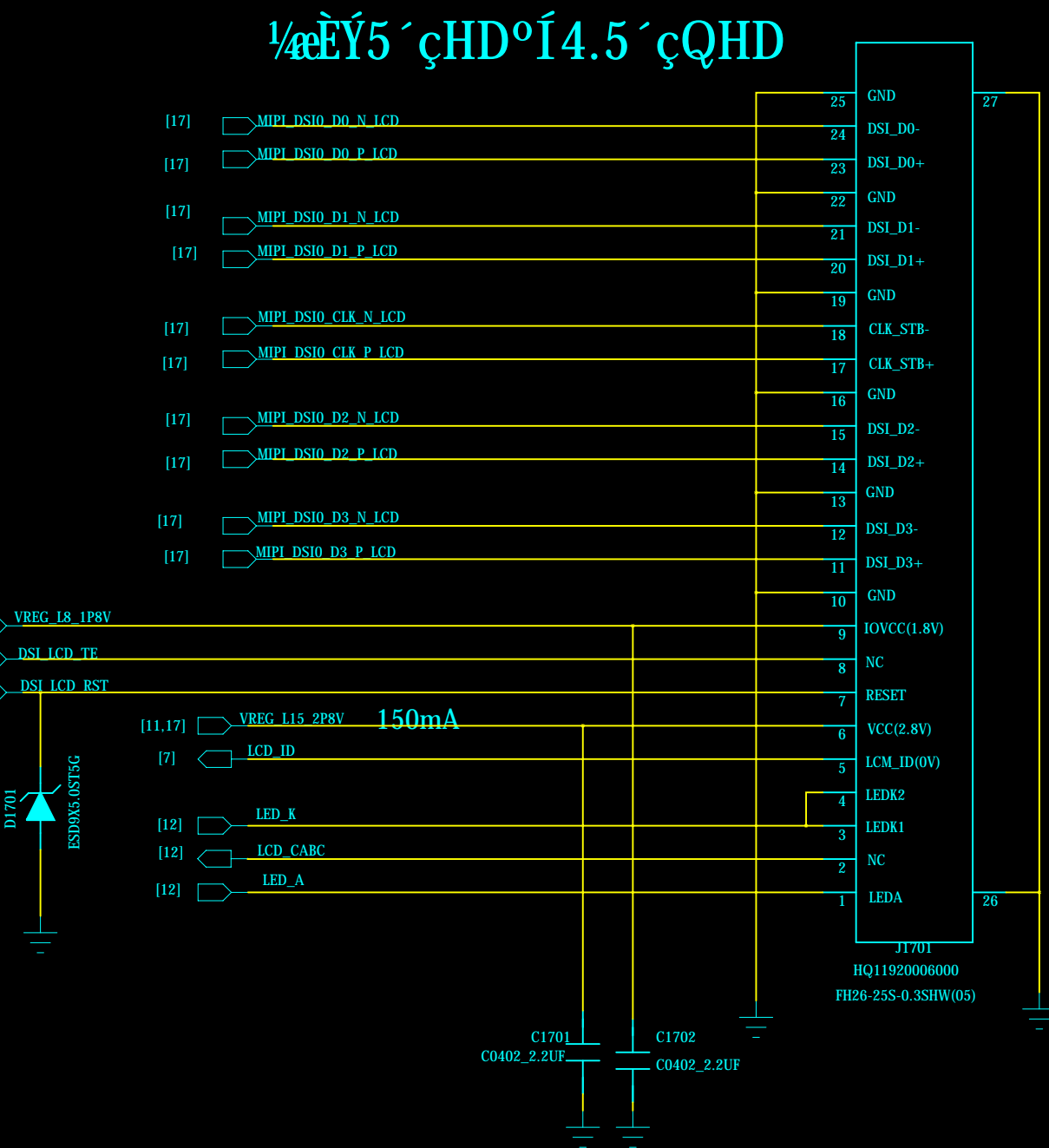
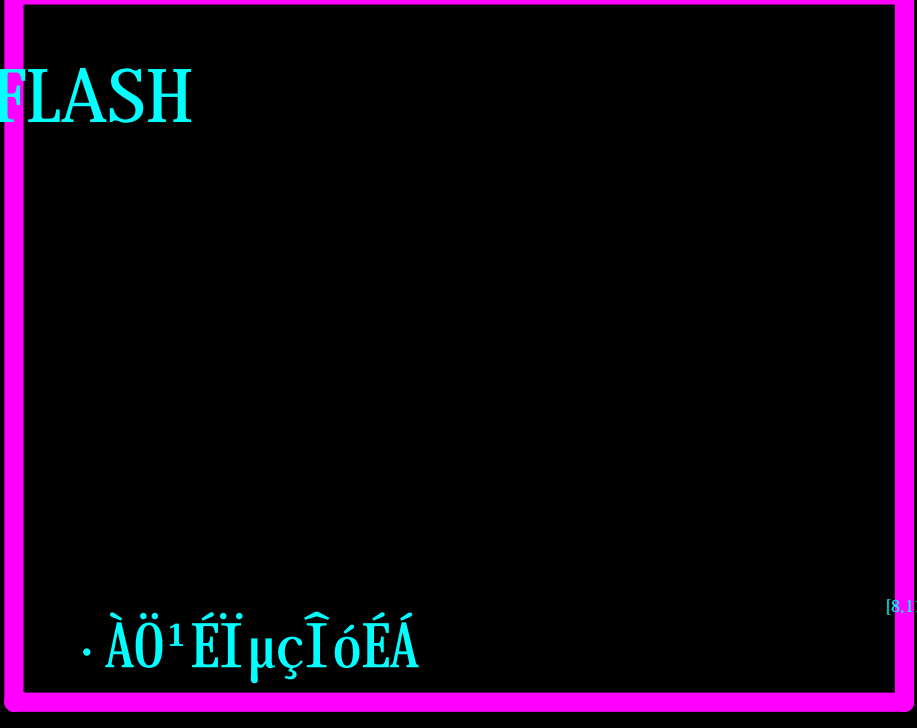
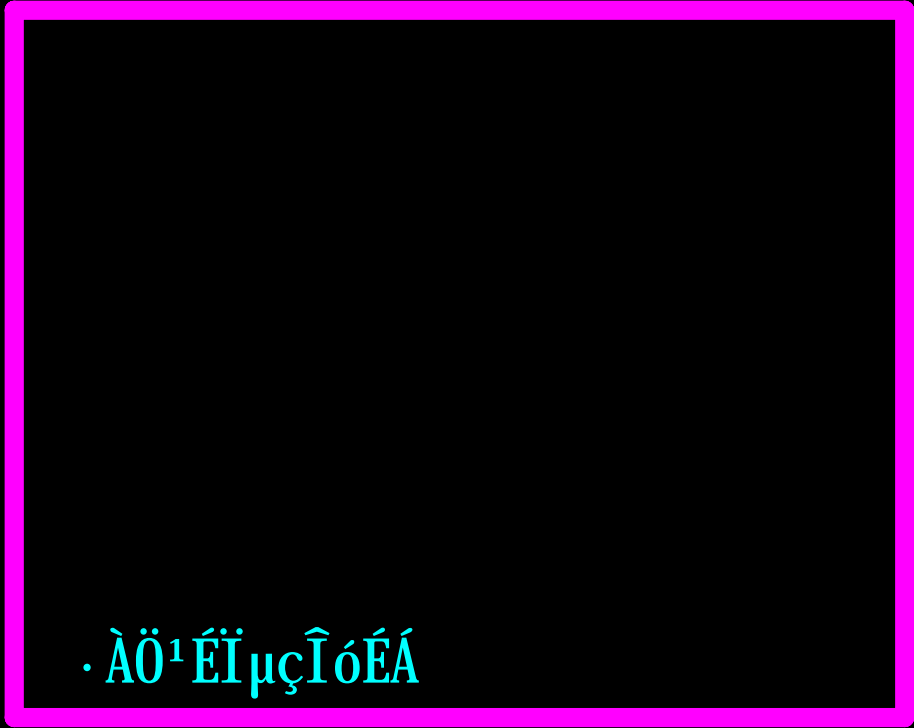
Capacitor Touch Panel

Motor

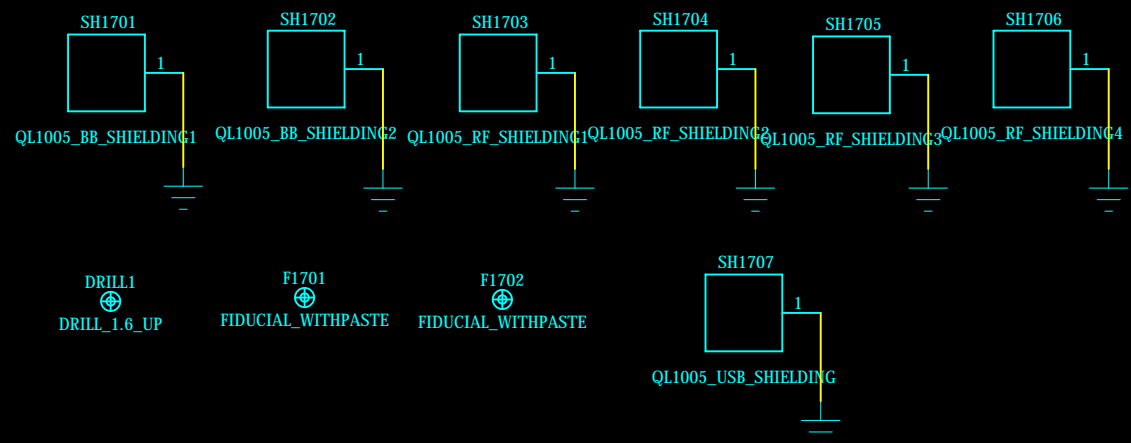
Hall



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LCD



Camera FLASH LED
Camera

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HR LED



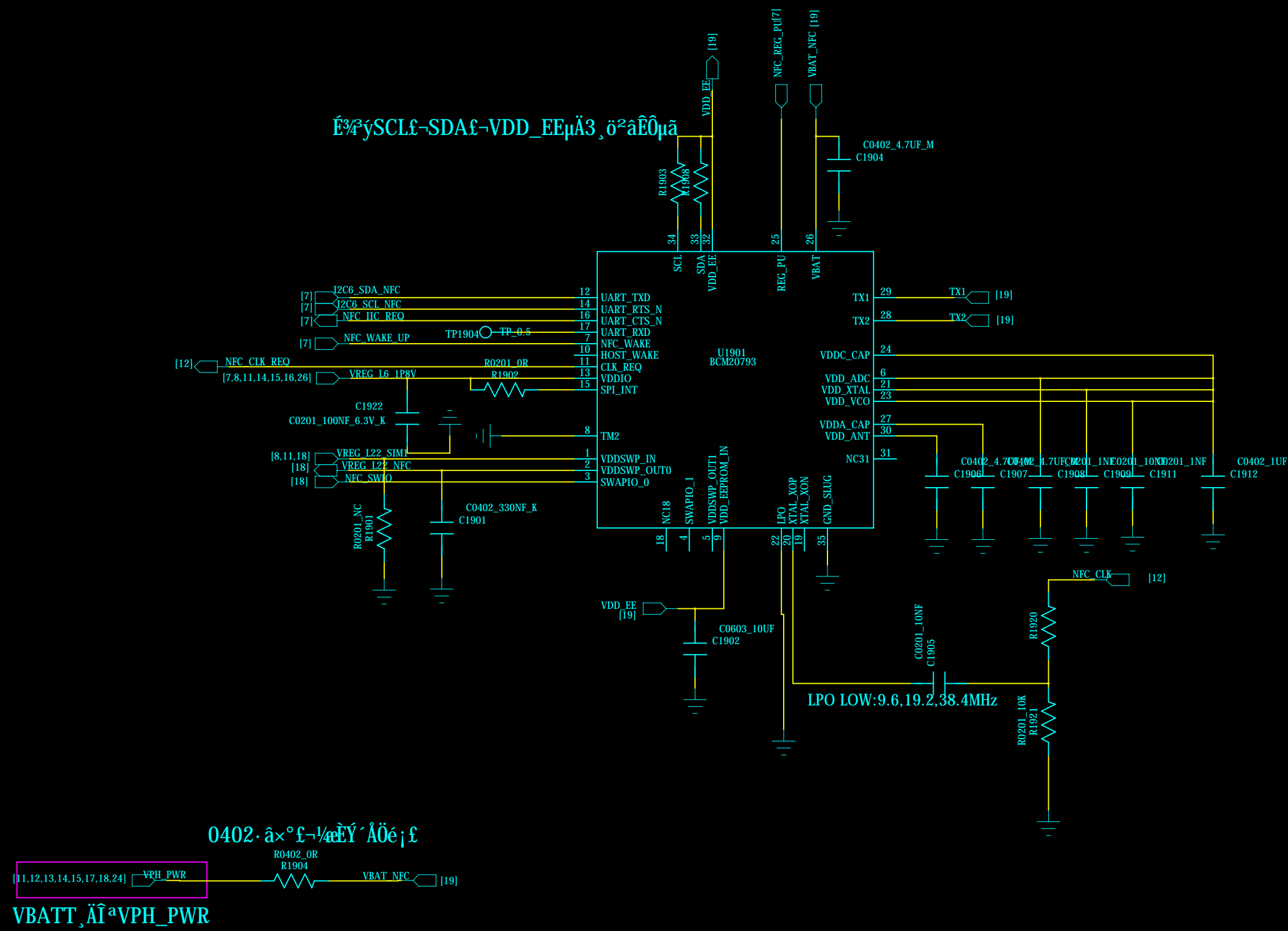
KBÉİ£°MIC£-SPK£-KEY LED, Motor

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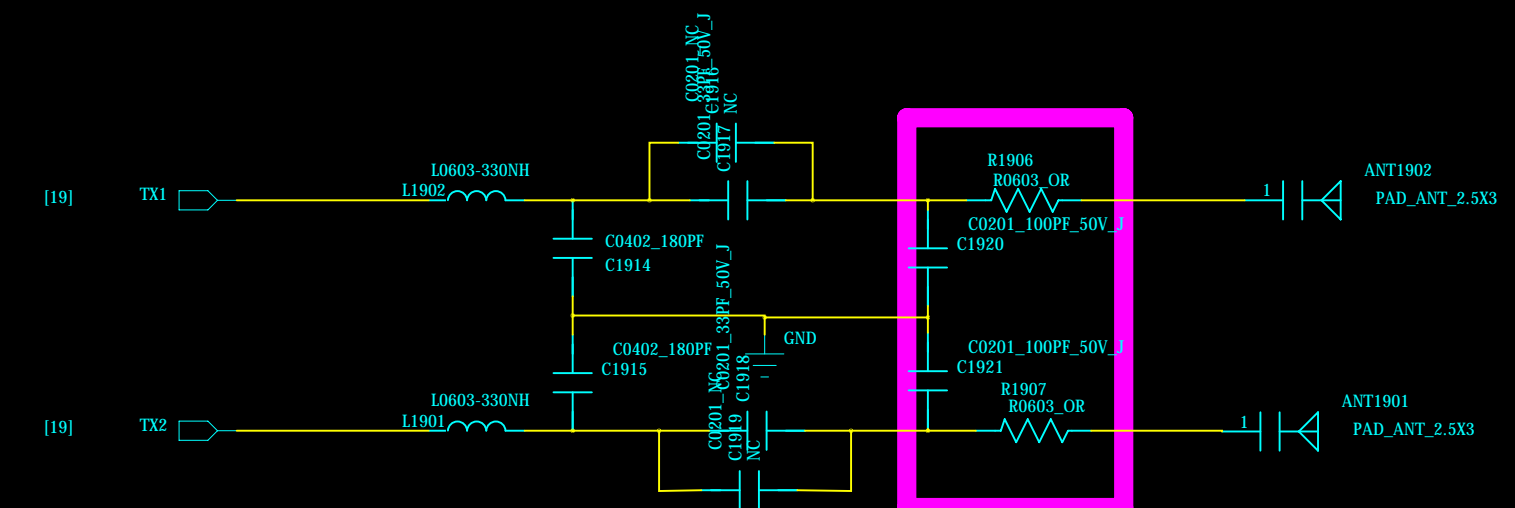
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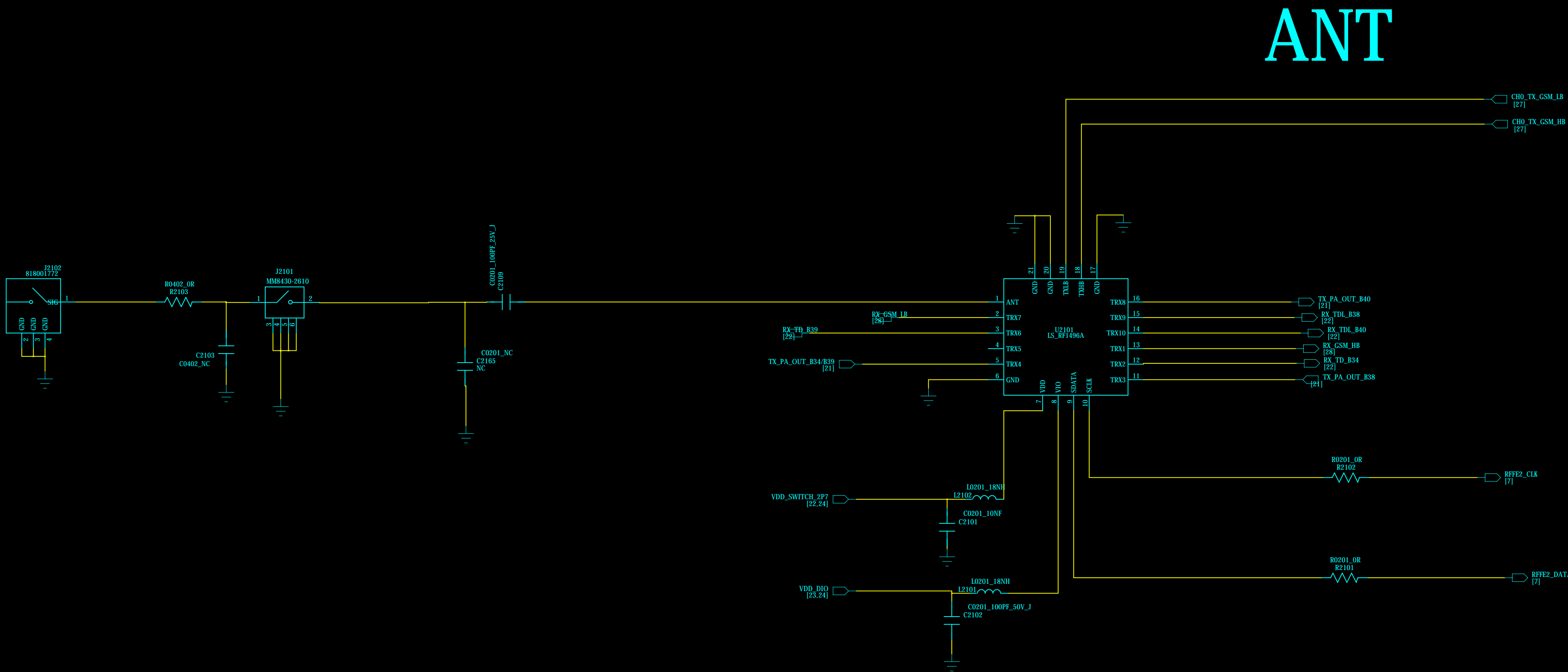
BB



RF



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PRIMARY_ANTENNA_SWITCHPLEXER

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TD/TDD_LTE_B34/B38(B41)/B39/B40

SACEA1G81Tb0F0A

CHANGE TO B9609

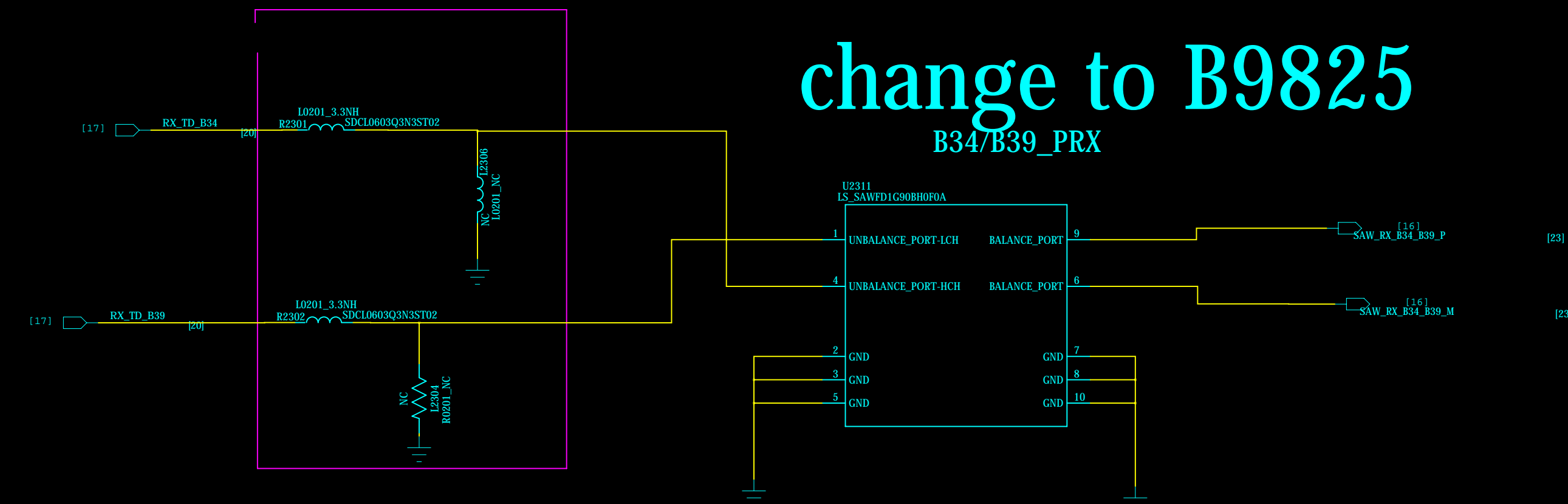
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RF_TD/TDD_LTE_RXDRX

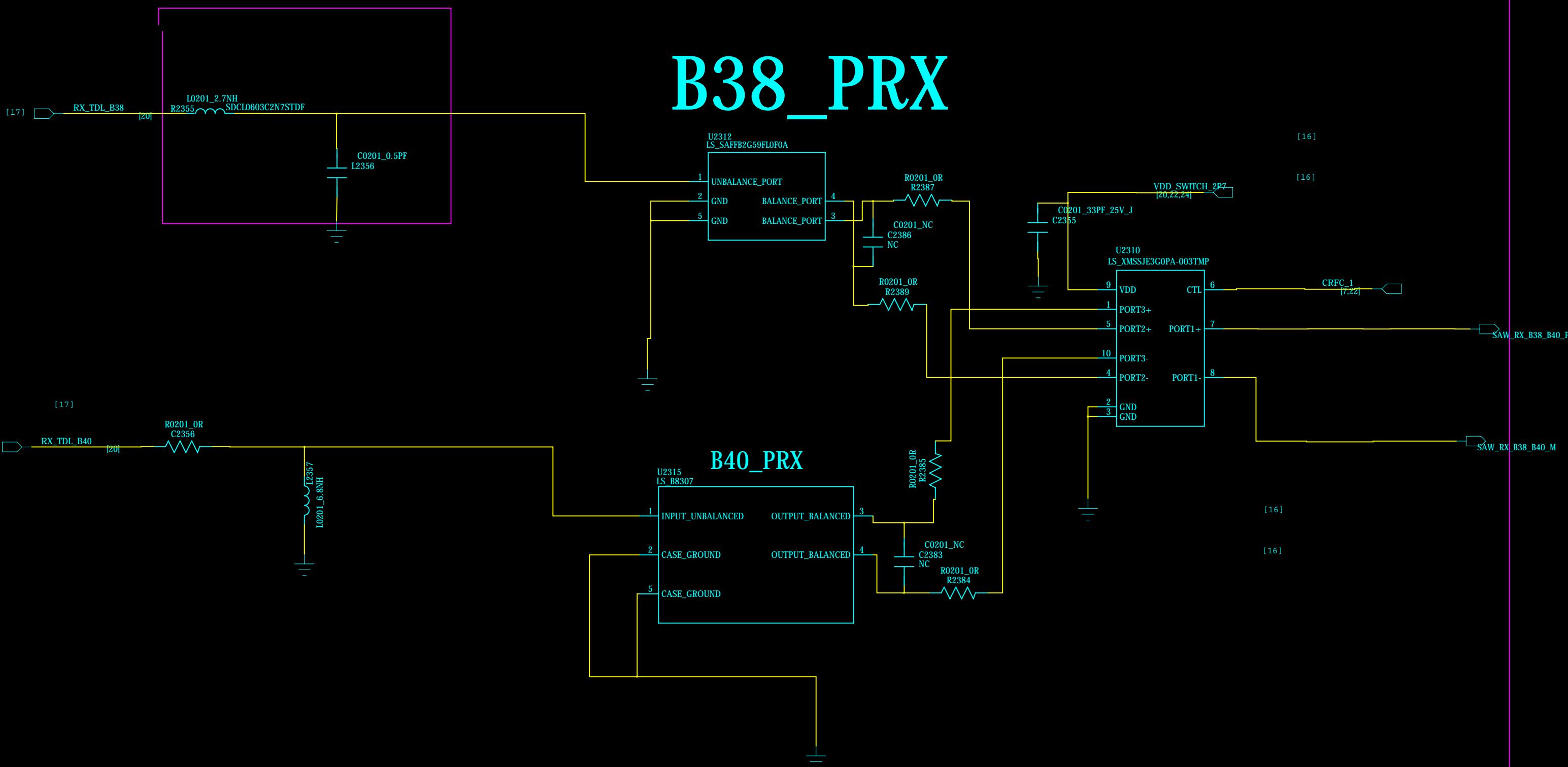
RF_TD/TDD_LTE_DRX

change to B9825

B34/B39_PRX

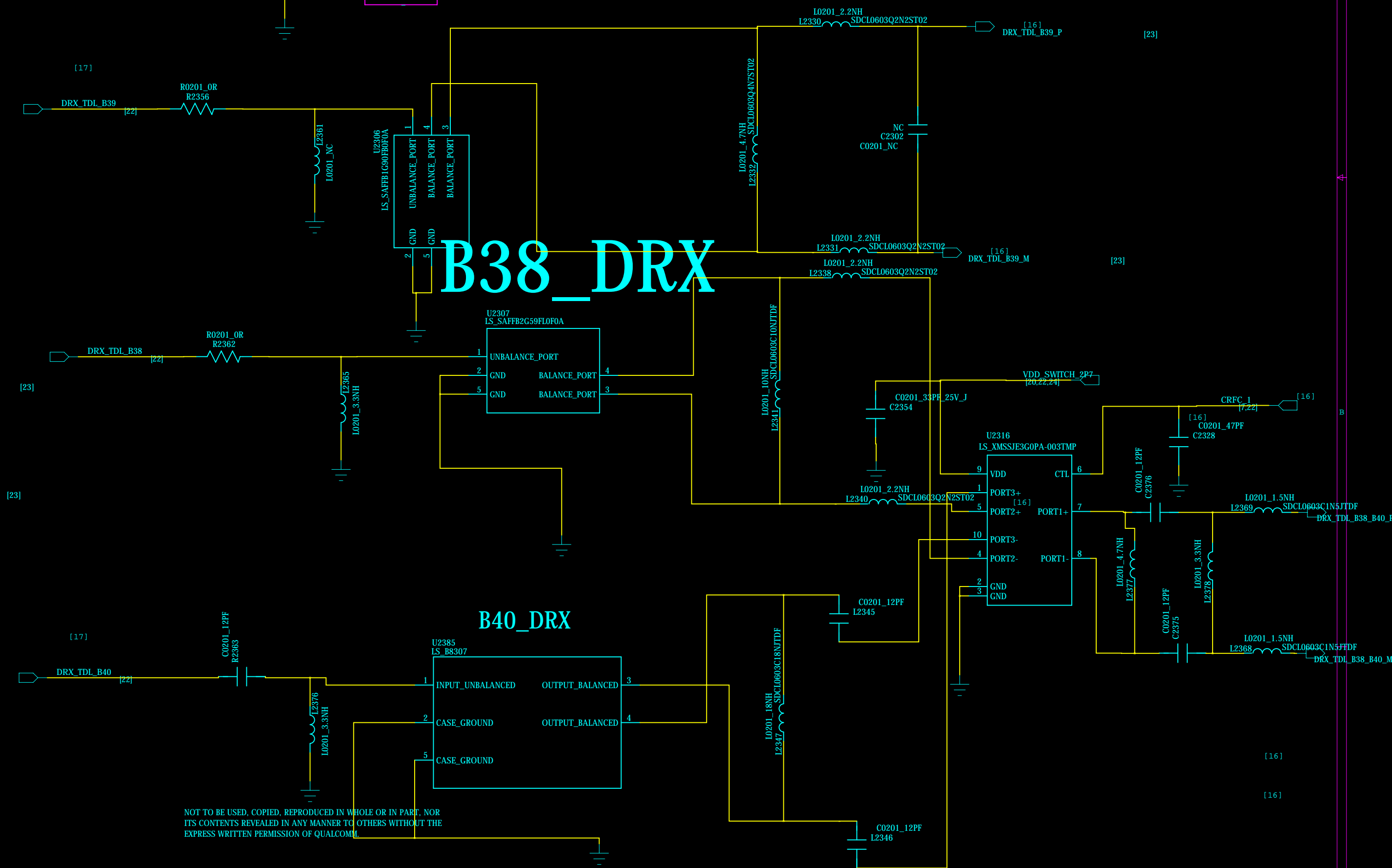


B38_PRX



B40_PRX

B38_DRX

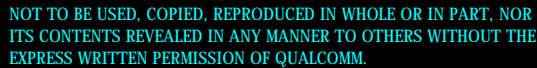


B40_DRX

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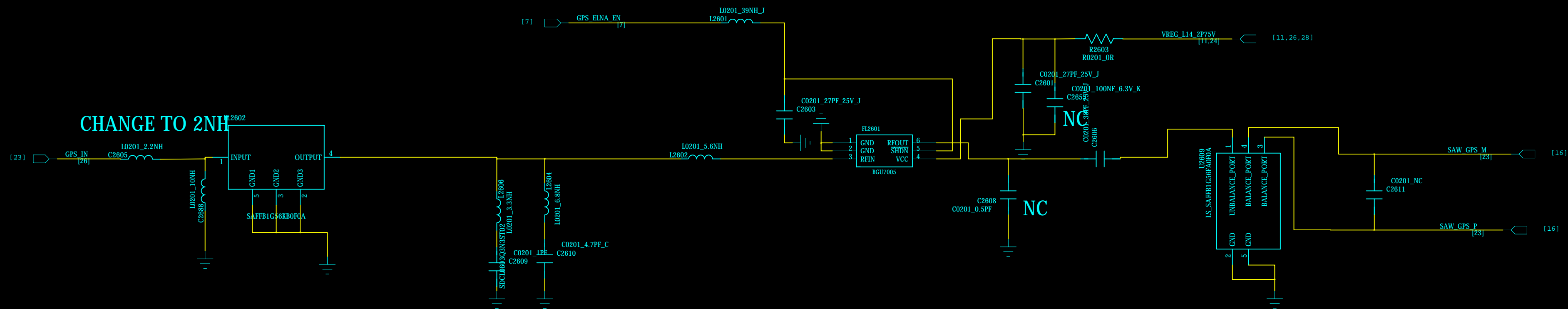


RF_WTR1605L_POWER

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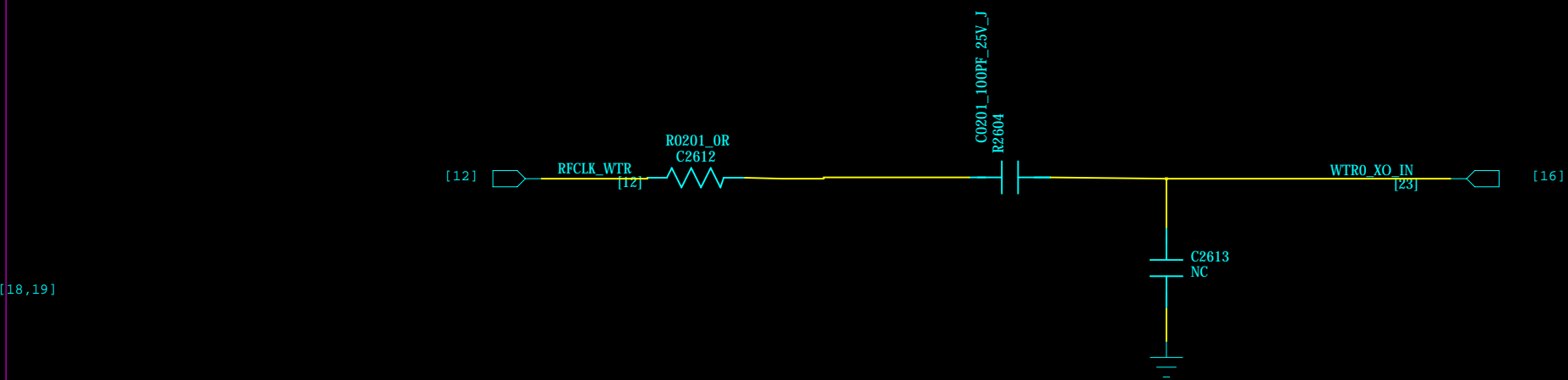
RF_GPS

BYPASS LNA&FILTER



APT

RF_XO



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CHANGE TO B9604

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GSM TX

