

Apple iPhone 11 Pro Schematic Diagram

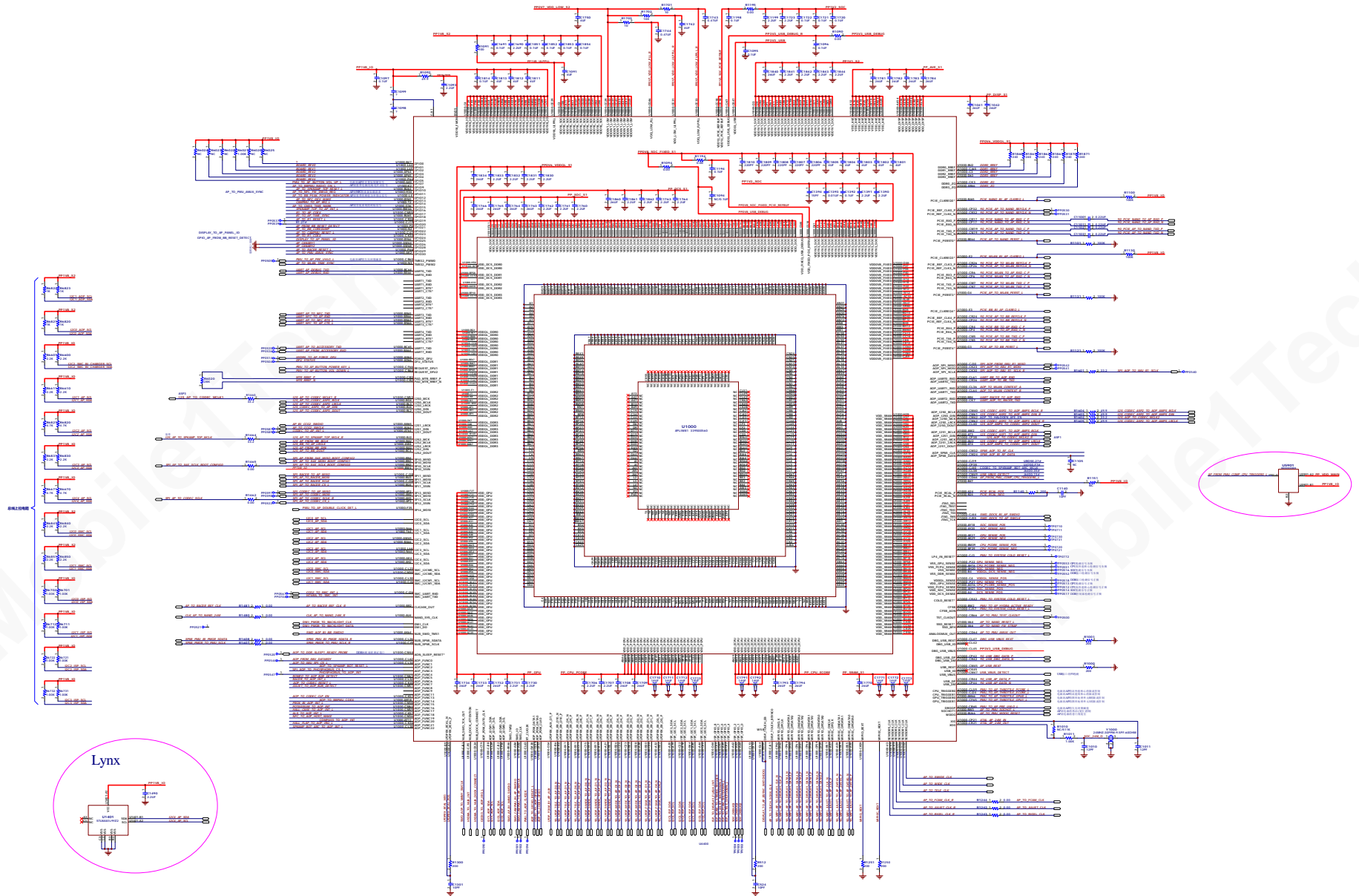


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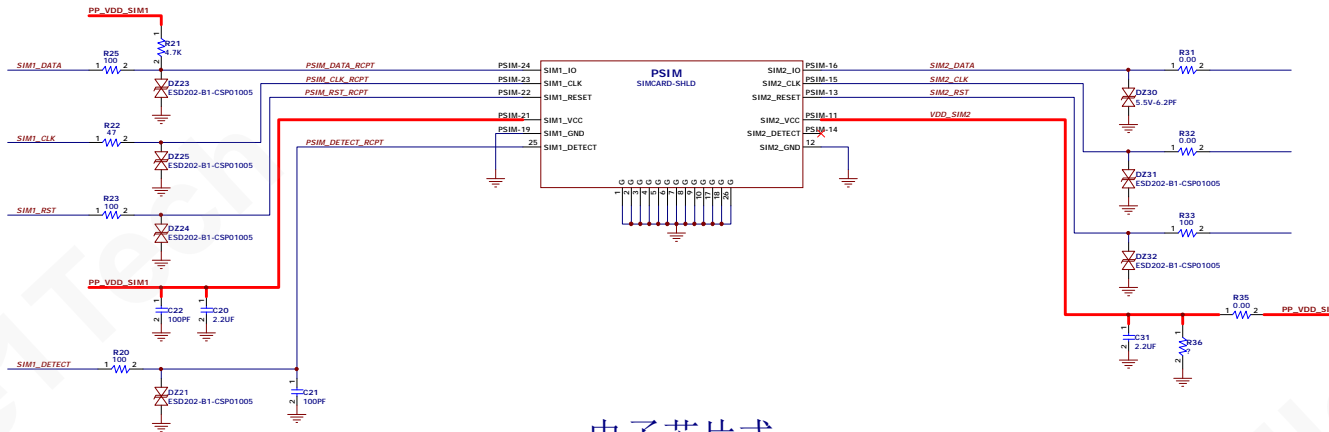
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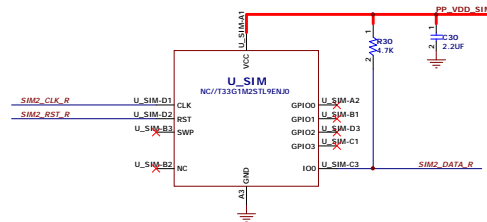
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电子芯片式 USIM

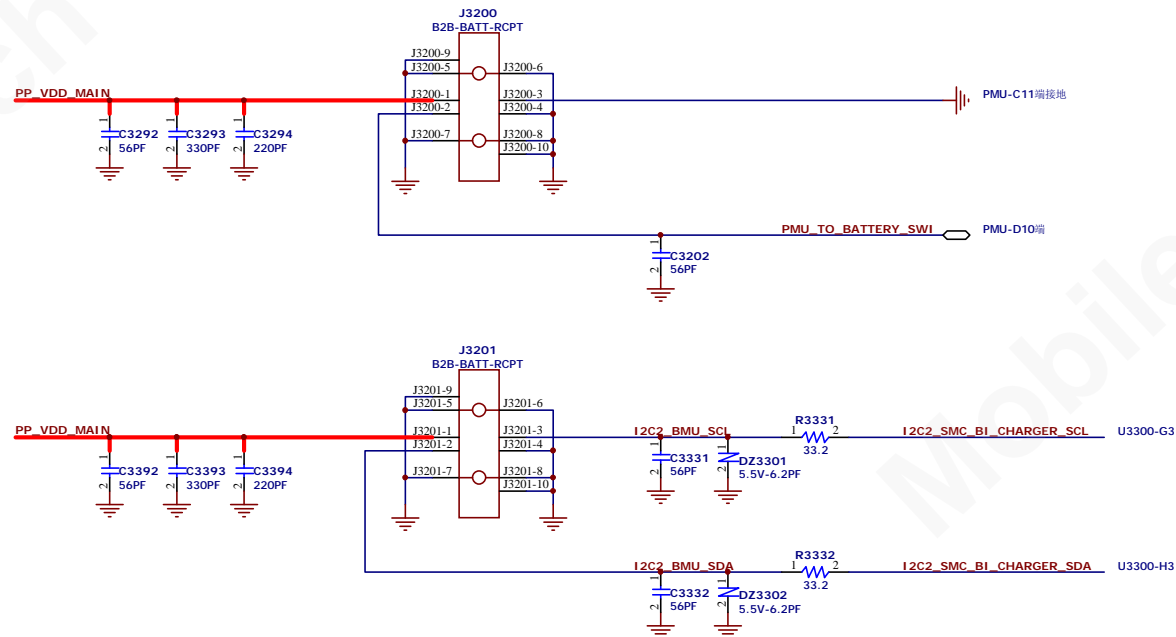


核心板与射频板连接器 (框) 上端

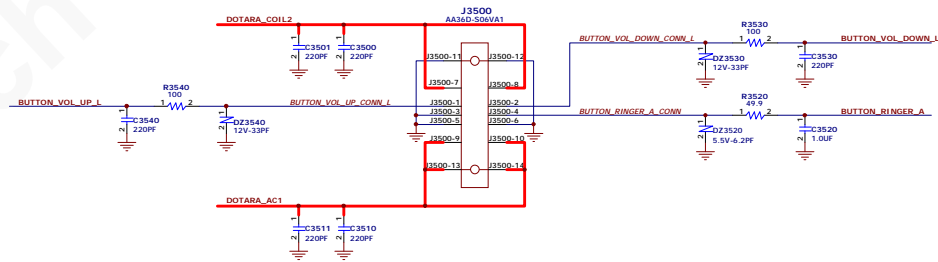
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<tr><td></td><td>GND</td><td>574</td><td>575</td></tr> <tr><td></td><td>GND</td><td>576</td><td>577</td></tr> <tr><td></td><td>GND</td><td>578</td><td>579</td></tr> <tr><td></td><td>GND</td><td>580</td><td>581</td></tr> <tr><td></td><td>GND</td><td>582</td><td>583</td></tr> <tr><td></td><td>GND</td><td>584</td><td>585</td></tr> <tr><td></td><td>GND</td><td>586</td><td>587</td></tr> <tr><td></td><td>GND</td><td>588</td><td>589</td></tr> <tr><td></td><td>GND</td><td>590</td><td>591</td></tr> <tr><td></td><td>GND</td><td>592</td><td>593</td></tr> <tr><td></td><td>GND</td><td>594</td><td>595</td></tr> <tr><td></td><td>GND</td><td>596</td><td>597</td></tr> <tr><td></td><td>GND</td><td>598</td><td>599</td></tr> <tr><td></td><td>GND</td><td>600</td><td>601</td></tr> <tr><td></td><td>GND</td><td>602</td><td>603</td></tr> <tr><td></td><td>GND</td><td>604</td><td>605</td></tr> <tr><td></td><td>GND</td><td>606</td><td>607</td></tr> <tr><td></td><td>GND</td><td>608</td><td>609</td></tr> <tr><td></td><td>GND</td><td>610</td><td>611</td></tr> <tr><td></td><td>GND</td><td>612</td><td>613</td></tr> <tr><td></td><td>GND</td><td>614</td><td>615</td></tr> <tr><td></td><td>GND</td><td>616</td><td>617</td></tr> <tr><td></td><td>GND</td><td>618</td><td>619</td></tr> <tr><td></td><td>GND</td><td>620</td><td>621</td></tr> <tr><td></td><td>GND</td><td>622</td><td>623</td></tr> <tr><td></td><td>GND</td><td>624</td><td>625</td></tr> <tr><td></td><td>GND</td><td>626</td><td>627</td></tr> <tr><td></td><td>GND</td><td>628</td><td>629</td></tr> <tr><td></td><td>GND</td><td>630</td><td>631</td></tr> <tr><td></td><td>GND</td><td>632</td><td>633</td></tr> <tr><td></td><td>GND</td><td>634</td><td>635</td></tr> <tr><td></td><td>GND</td><td>636</td><td>637</td></tr> <tr><td></td><td>GND</td><td>638</td><td>639</td></tr> <tr><td></td><td>GND</td><td>640</td><td>641</td></tr> <tr><td></td><td>GND</td><td>642</td><td>643</td></tr> <tr><td></td><td>GND</td><td>644</td><td>645</td></tr> <tr><td></td><td>GND</td><td>646</td><td>647</td></tr> <tr><td></td><td>GND</td><td>648</td><td>649</td></tr> <tr><td></td><td>GND</td><td>650</td><td>651</td></tr> <tr><td></td><td>GND</td><td>652</td><td>653</td></tr> <tr><td></td><td>GND</td><td>654</td><td>655</td></tr> <tr><td></td><td>GND</td><td>656</td><td>657</td></tr> <tr><td></td><td>GND</td><td>658</td><td>659</td></tr> <tr><td></td><td>GND</td><td>660</td><td>661</td></tr> <tr><td></td><td>GND</td><td>662</td><td>663</td></tr> <tr><td></td><td>GND</td><td>664</td><td>665</td></tr> <tr><td></td><td>GND</td><td>666</td><td>667</td></tr> <tr><td></td><td>GND</td><td>668</td><td>669</td></tr> <tr><td></td><td>GND</td><td>670</td><td>671</td></tr> <tr><td></td><td>GND</td><td>672</td><td>673</td></tr> <tr><td></td><td>GND</td><td>674</td><td>675</td></tr> <tr><td></td><td>GND</td><td>676</td><td>677</td></tr> <tr><td></td><td>GND</td><td>678</td><td>679</td></tr> <tr><td></td><td>GND</td><td>680</td><td>681</td></tr> <tr><td></td><td>GND</td><td>682</td><td>683</td></tr> <tr><td></td><td>GND</td><td>684</td><td>685</td></tr> <tr><td></td><td>GND</td><td>686</td><td>687</td></tr> <tr><td></td><td>GND</td><td>688</td><td>689</td></tr> <tr><td></td><td>GND</td><td>690</td><td>691</td></tr> <tr><td></td><td>GND</td><td>692</td><td>693</td></tr> <tr><td></td><td>GND</td><td>694</td><td>695</td></tr> <tr><td></td><td>GND</td><td>696</td><td>697</td></tr> <tr><td></td><td>GND</td><td>698</td><td>699</td></tr> <tr><td></td><td>GND</td><td>700</td><td>701</td></tr> <tr><td></td><td>GND</td><td>702</td><td>703</td></tr> <tr><td></td><td>GND</td><td>704</td><td>705</td></tr> <tr><td></td><td>GND</td><td>706</td><td>707</td></tr> <tr><td></td><td>GND</td><td>708</td><td>709</td></tr> <tr><td></td><td>GND</td><td>710</td><td>711</td></tr> <tr><td></td><td>GND</td><td>712</td><td>713</td></tr> <tr><td></td><td>GND</td><td>714</td><td>715</td></tr> <tr><td></td><td>GND</td><td>716</td><td>717</td></tr> <tr><td></td><td>GND</td><td>718</td><td>719</td></tr> <tr><td></td><td>GND</td><td>720</td><td>721</td></tr> <tr><td></td><td>GND</td><td>722</td><td>723</td></tr> <tr><td></td><td>GND</td><td>724</td><td>725</td></tr> <tr><td></td><td>GND</td><td>726</td><td>727</td></tr> <tr><td></td><td>GND</td><td>728</td><td>729</td></tr> <tr><td></td><td>GND</td><td>730</td><td>731</td></tr> <tr><td></td><td>GND</td><td>732</td><td>733</td></tr> <tr><td></td><td>GND</td><td>734</td><td>735</td></tr> <tr><td></td><td>GND</td><td>736</td><td>737</td></tr> <tr><td></td><td>GND</td><td>738</td><td>739</td></tr> <tr><td></td><td>GND</td><td>740</td><td>741</td></tr> <tr><td></td><td>GND</td><td>742</td><td>743</td></tr> <tr><td></td><td>GND</td><td>744</td><td>745</td></tr> <tr><td></td><td>GND</td><td>746</td><td>747</td></tr> <tr><td></td><td>GND</td><td>748</td><td>749</td></tr> <tr><td></td><td>GND</td><td>750</td><td>751</td></tr> <tr><td></td><td>GND</td><td>752</td><td>753</td></tr> <tr><td></td><td>GND</td><td>754</td><td>755</td></tr> <tr><td></td><td>GND</td><td>756</td><td>757</td></tr> <tr><td></td><td>GND</td><td>758</td><td>759</td></tr> <tr><td></td><td>GND</td><td>760</td><td>761</td></tr> <tr><td></td><td>GND</td><td>762</td><td>763</td></tr> <tr><td></td><td>GND</td><td>764</td><td>765</td></tr> <tr><td></td><td>GND</td><td>766</td><td>767</td></tr> <tr><td></td><td>GND</td><td>768</td><td>769</td></tr> <tr><td></td><td>GND</td><td>770</td><td>771</td></tr> <tr><td></td><td>GND</td><td>772</td><td>773</td></tr> <tr><td></td><td>GND</td><td>774</td><td>775</td></tr> <tr><td></td><td>GND</td><td>776</td><td>777</td></tr> <tr><td></td><td>GND</td><td>778</td><td>779</td></tr> <tr><td></td><td>GND</td><td>780</td><td>781</td></tr> <tr><td></td><td>GND</td><td>782</td><td>783</td></tr> <tr><td></td><td>GND</td><td>784</td><td>785</td></tr> <tr><td></td><td>GND</td><td>786</td><td>787</td></tr> <tr><td></td><td>GND</td><td>788</td><td>789</td></tr> 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BATTERY CONNECTOR

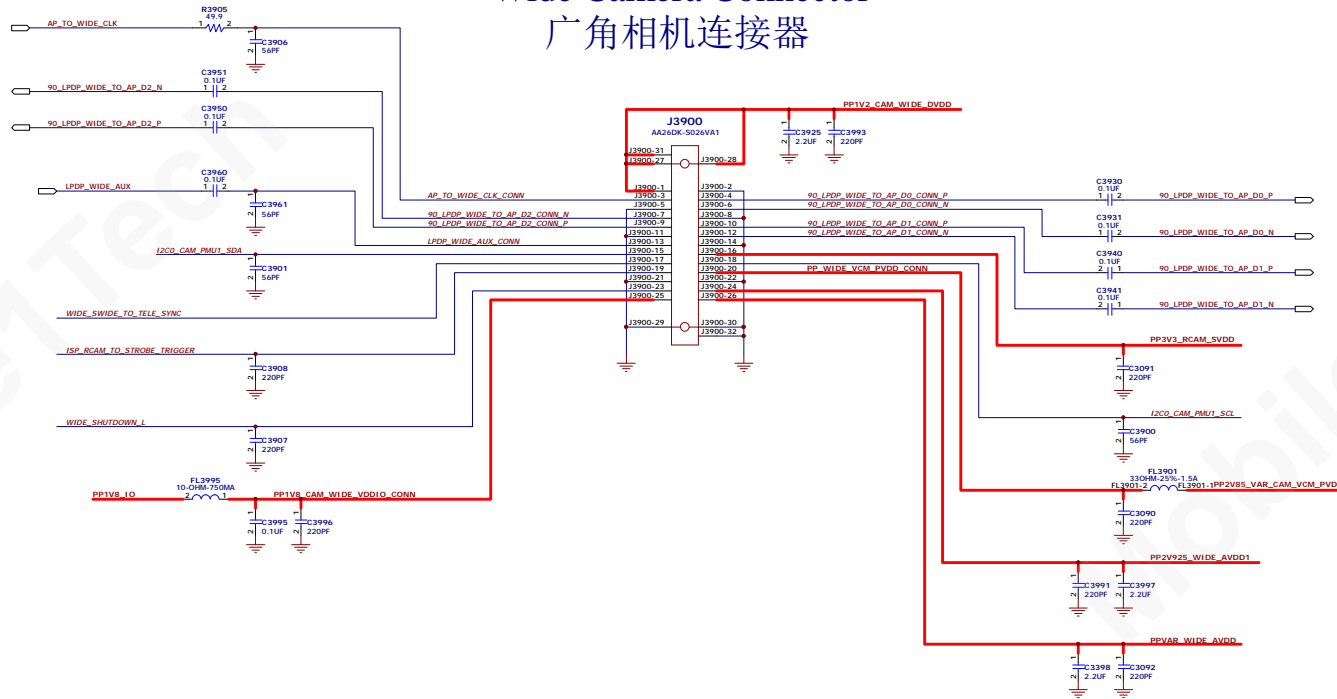
电池连接器



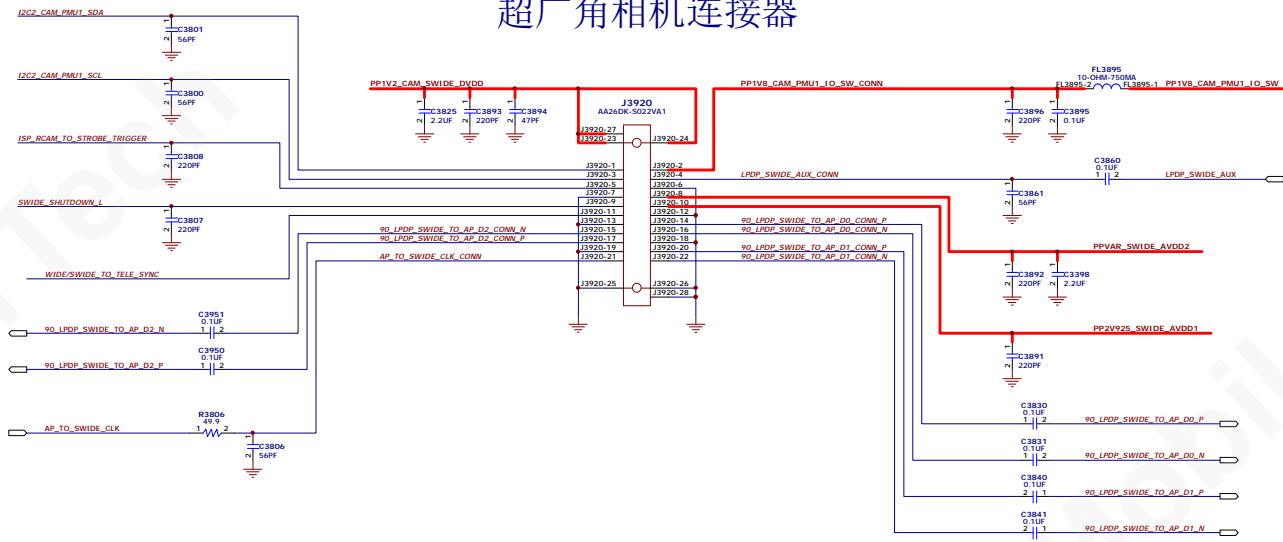
Cyclone + Button Connector 按键连接器



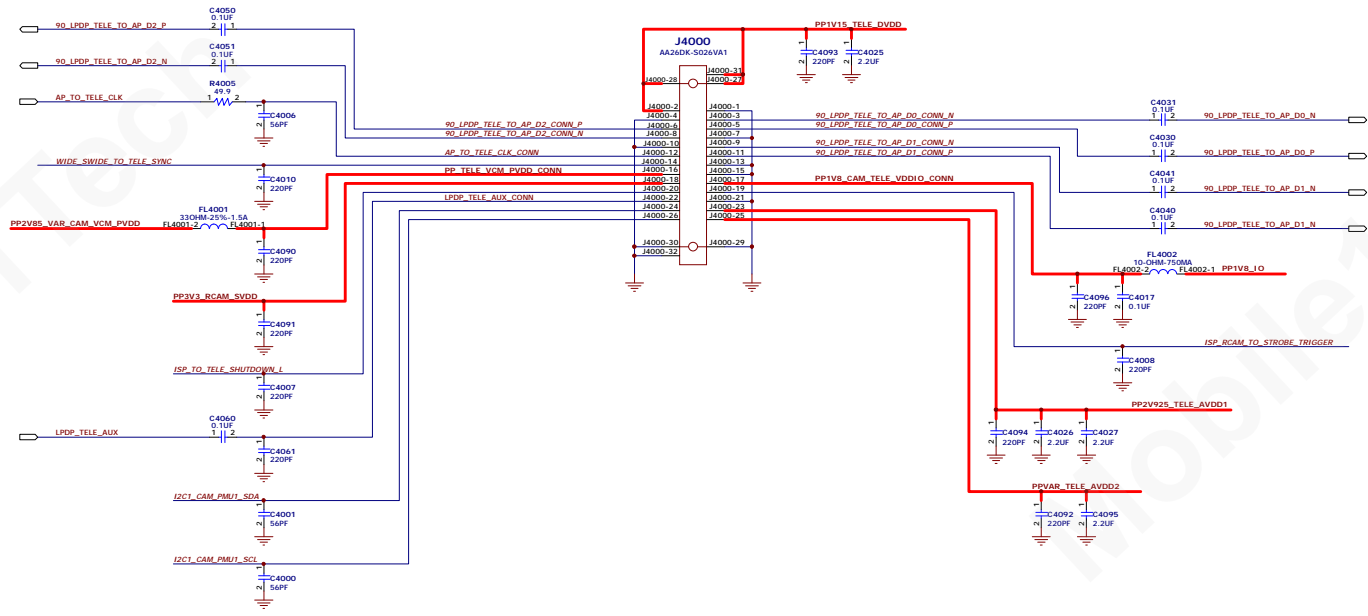
Wide Camera Connector 广角相机连接器



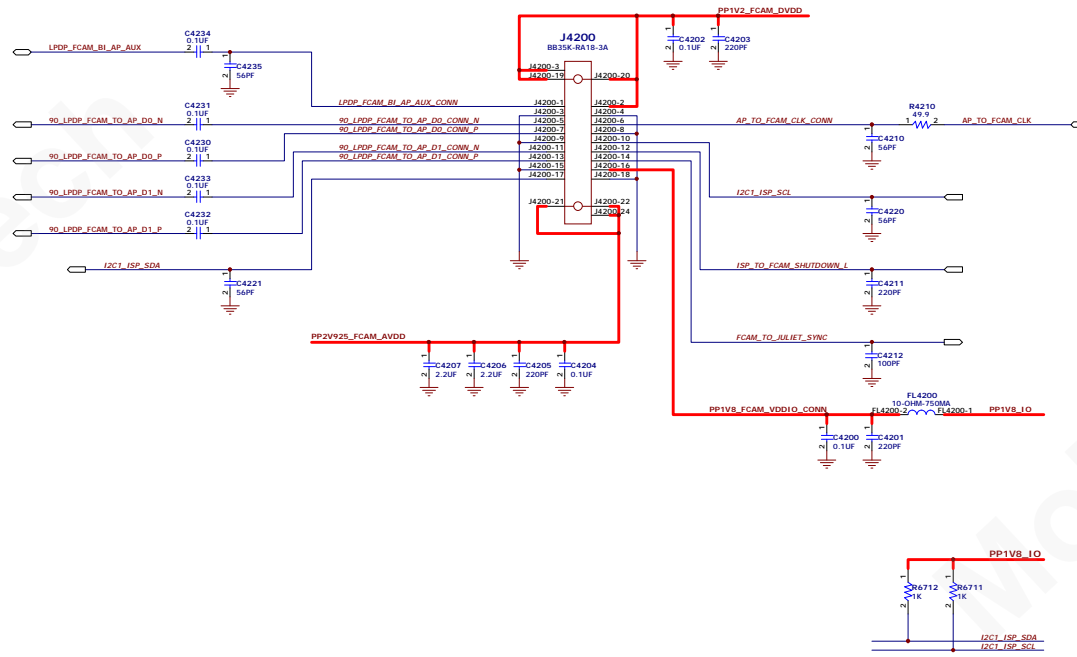
SWide Camera Connector 超广角相机连接器



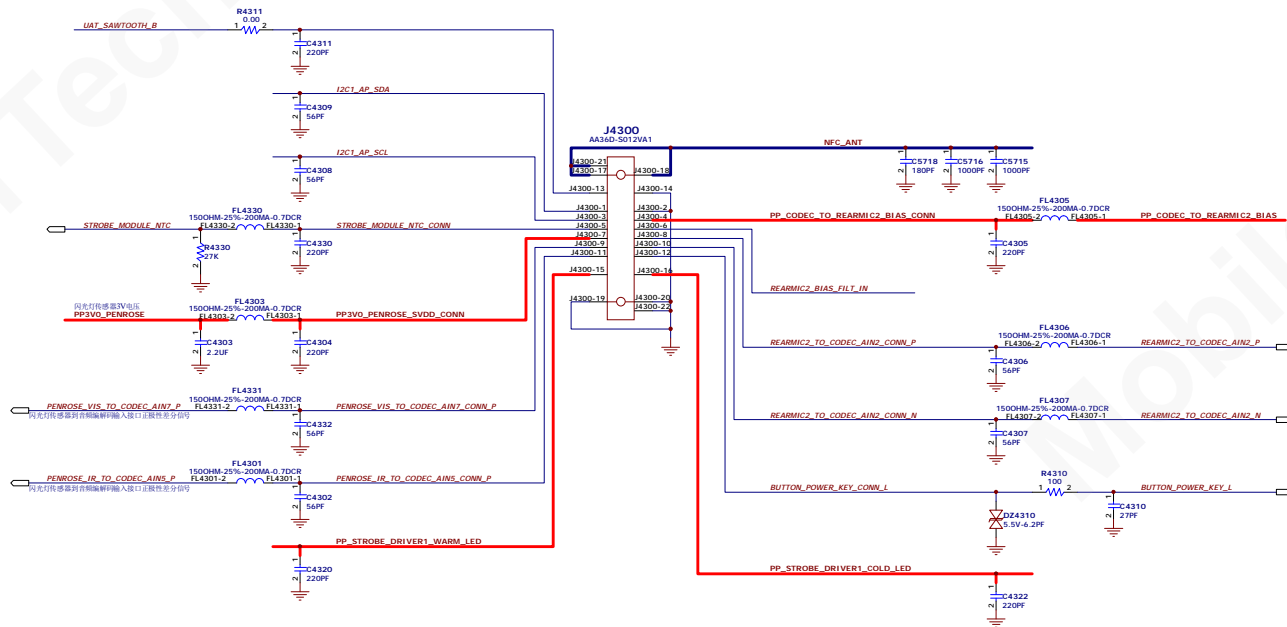
Tele Cam Connector 长焦相机连接器



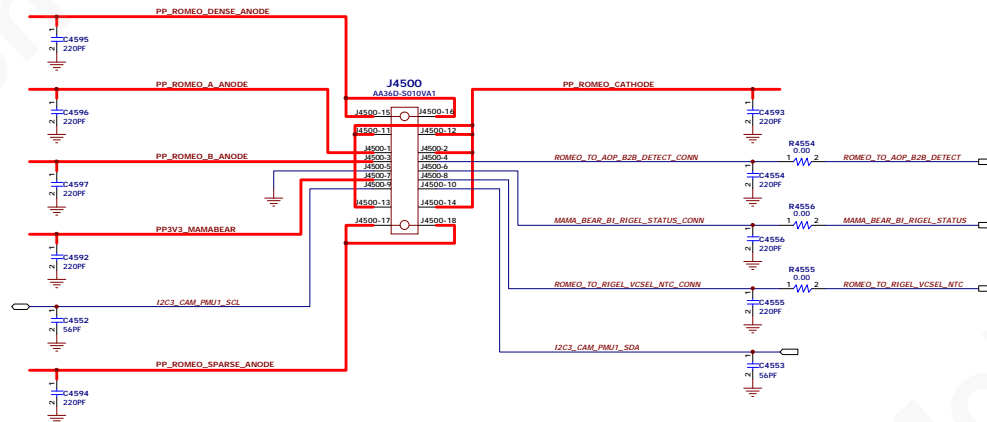
FCAM Connector 前置相机连接器



Strobe + Button Connector 闪光灯及开机键连接器



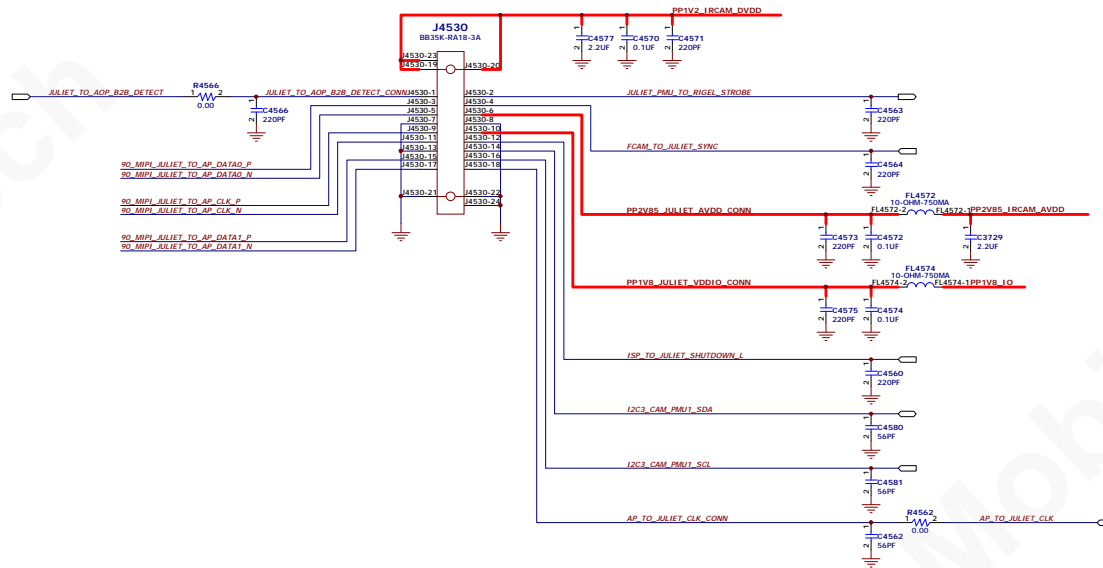
PEARL: B2B Romeo + Juliet
Romeo Connector
点阵投射连接器



IRCAM Connector

PEARL: B2B Juliet

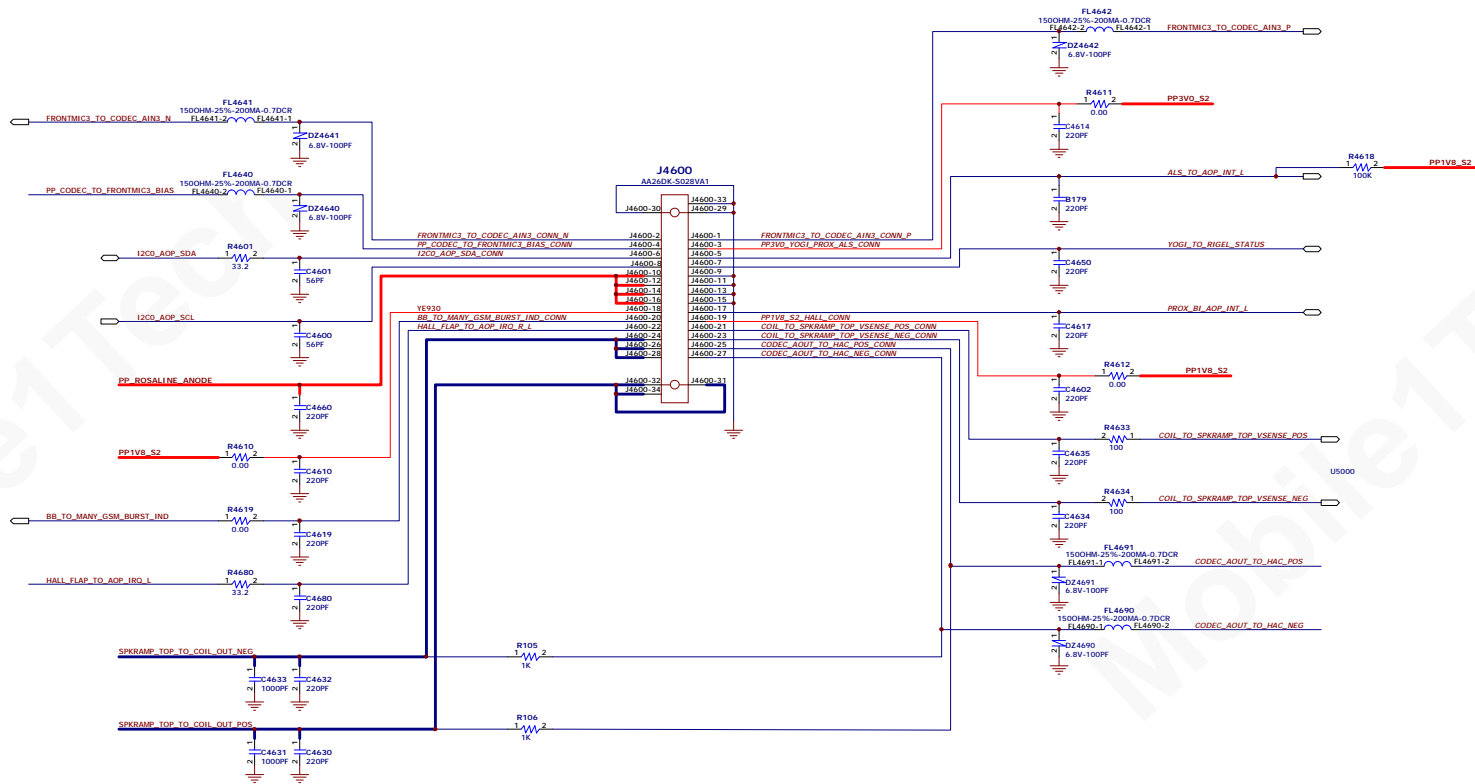
面容红外相机连接器



Rosaline + Sensor Connector

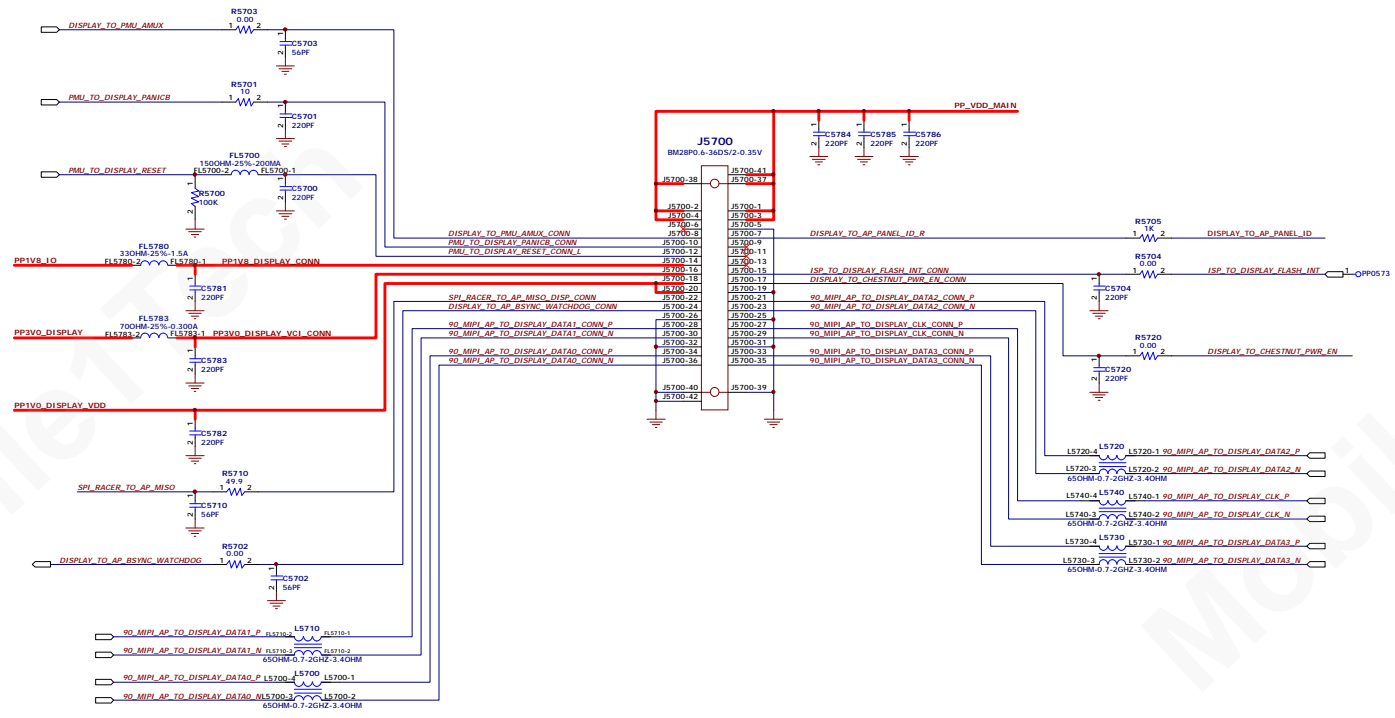
泛光照射器和传感器的连接器

PEARL: B2B Rosaline + Sensor



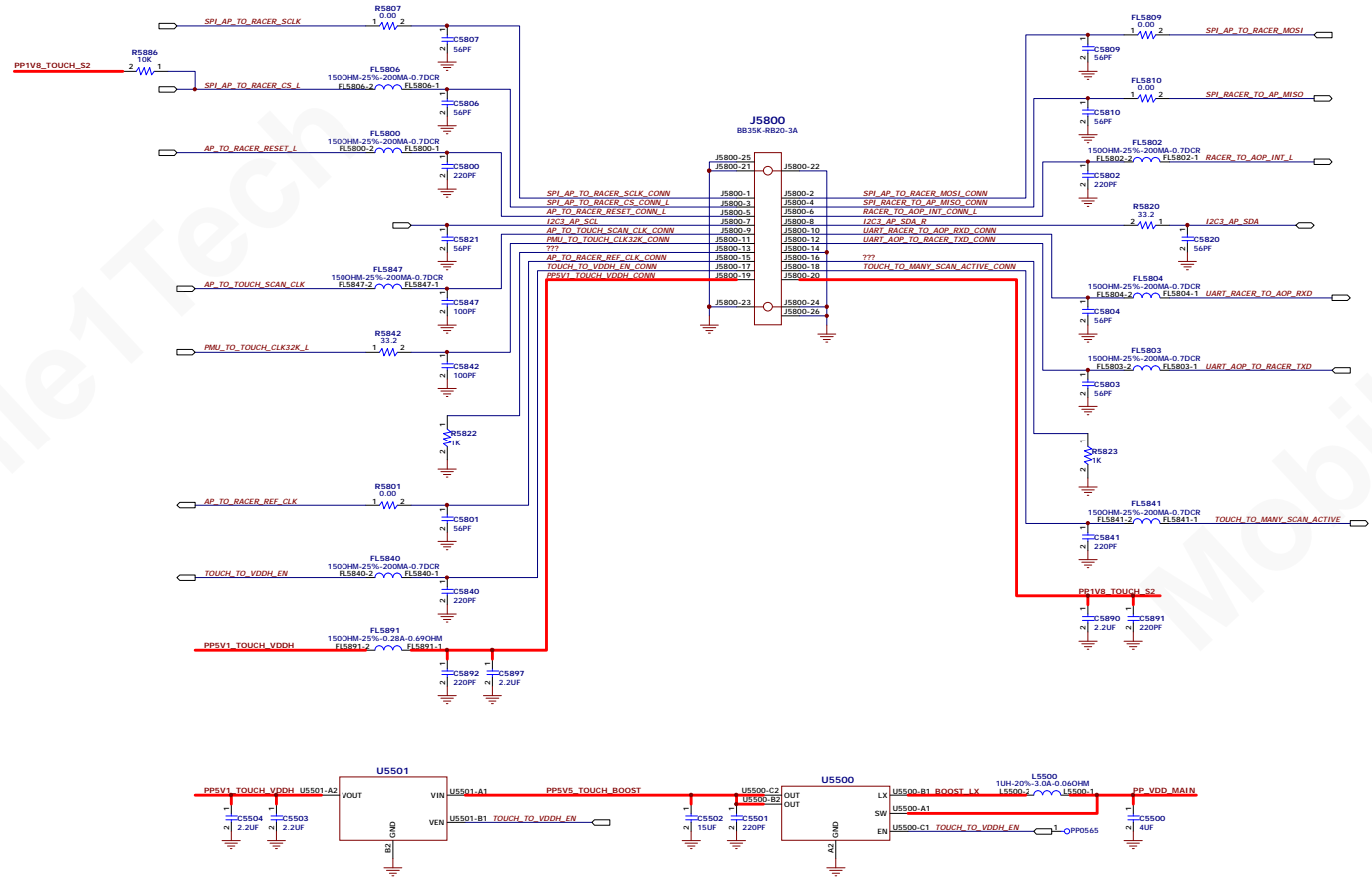
Display Flex Connector 显示屏连接器

CG: B2B Display

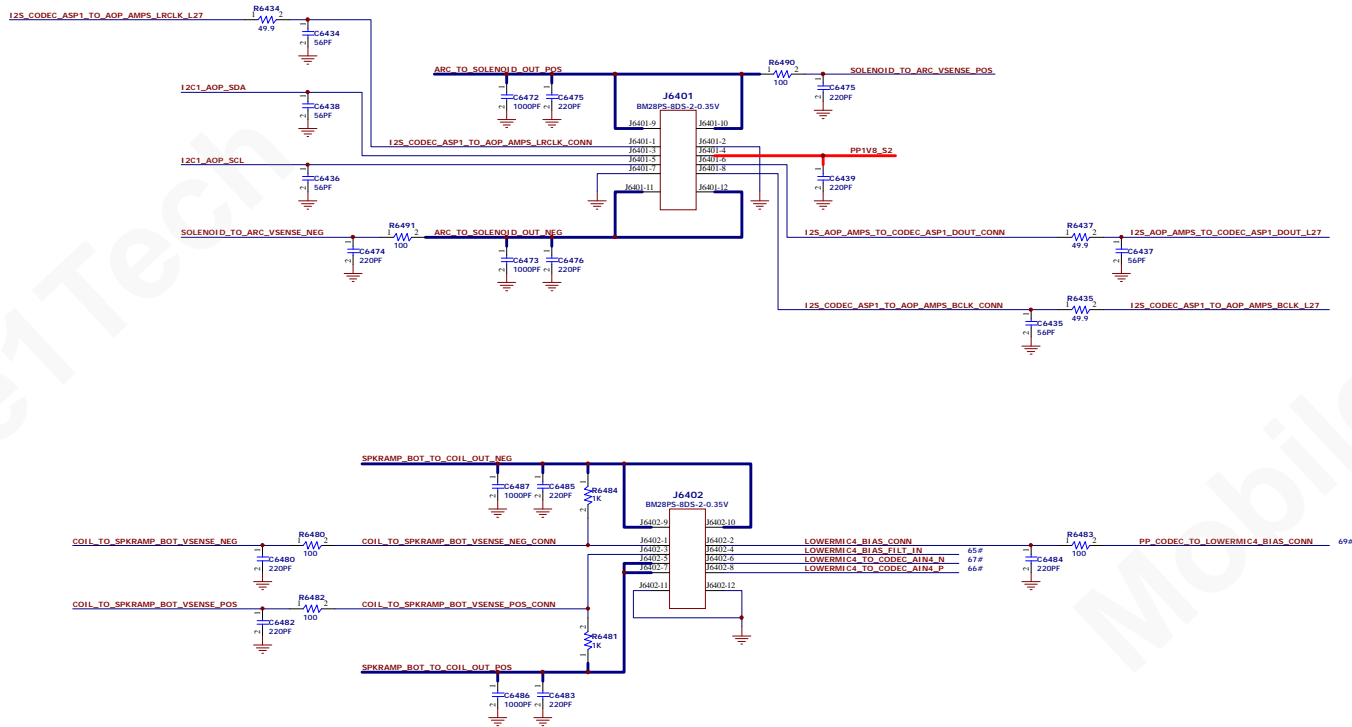


Luna + Touch Connector

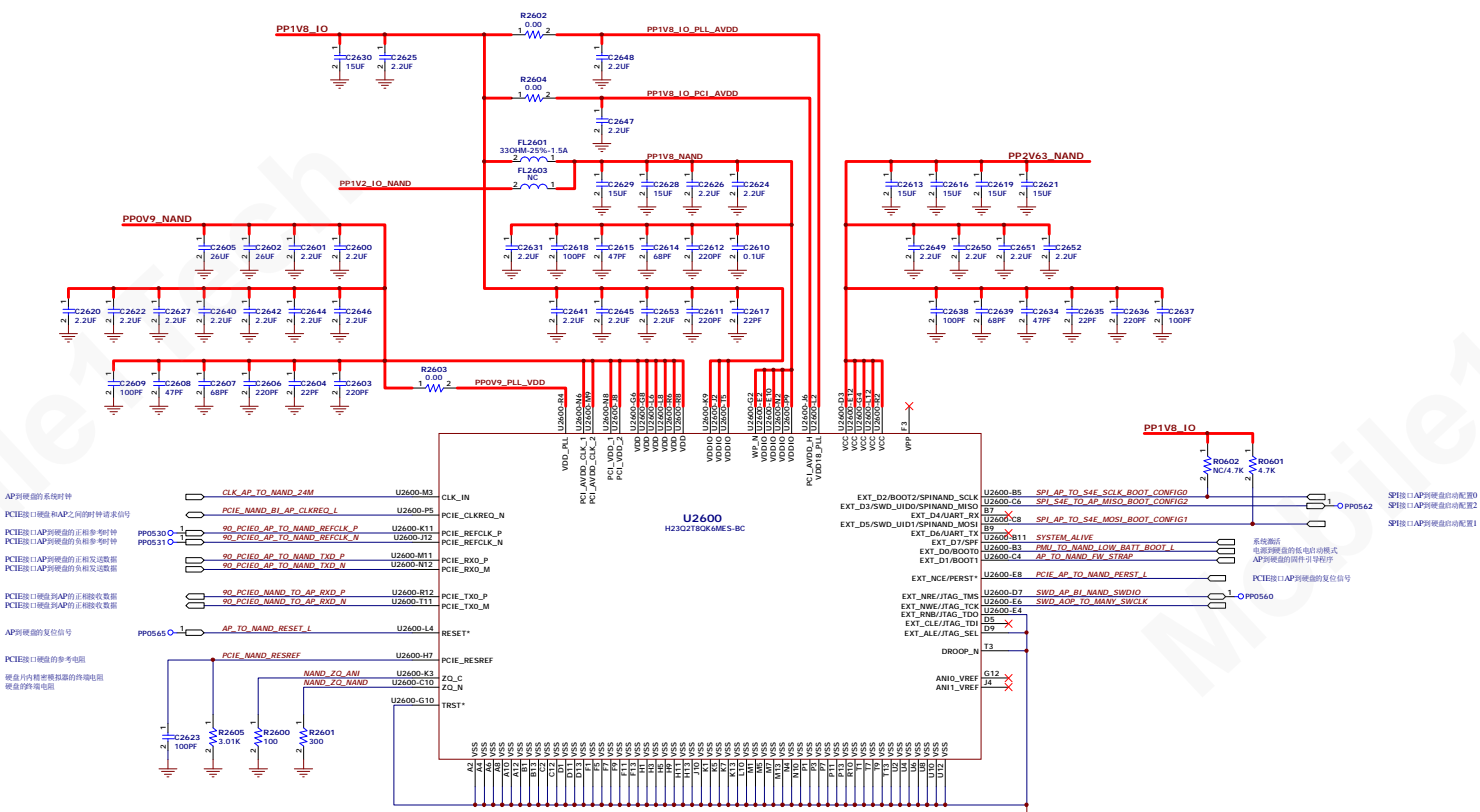
CG: B2B Luna & Touch
触控单元



ARC & BOT SPK 震动器 & 扬声器



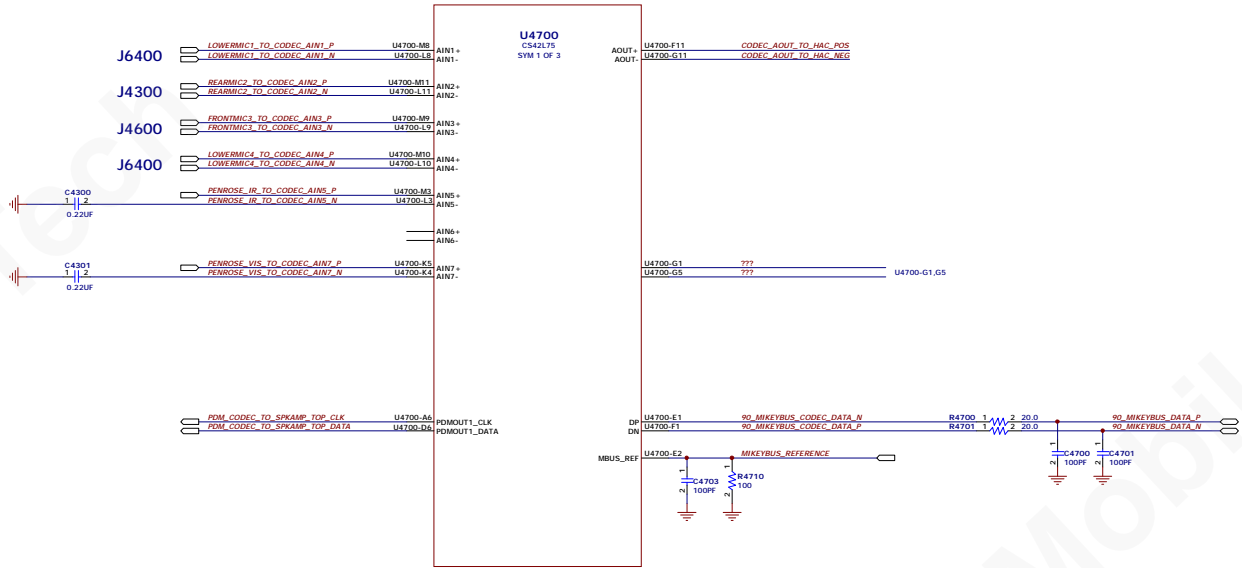
S4E NAND 硬盘



AP到硬盘的时钟信号	CLK_IN	U2600-M3	CLK_AP_TO_NAND_24M
PCIe接口硬盘和AP之间的时钟信号	PCIE_CLKREQ_N	U2600-P8	PCIE_NAND_BI_AP_CLKREQ_L
PCIe接口AP到硬盘的正相时钟信号	PCIE_REFCLK_P	U2600-K11	90_PCTEG_AP_TO_NAND_REFCLK_P
PCIe接口AP到硬盘的负相时钟信号	PCIE_REFCLK_N	U2600-T12	90_PCTEG_AP_TO_NAND_REFCLK_N
PCIe接口AP到硬盘的正相数据信号	PCIE_RX0_P	U2600-M11	90_PCTEG_AP_TO_NAND_TX0_P
PCIe接口AP到硬盘的负相数据信号	PCIE_RX0_M	U2600-N12	90_PCTEG_AP_TO_NAND_TX0_M
PCIe接口硬盘到AP的正相数据信号	PCIE_TX0_P	U2600-B12	90_PCTEG_NAND_TO_AP_RXD_P
PCIe接口硬盘到AP的负相数据信号	PCIE_TX0_M	U2600-T13	90_PCTEG_NAND_TO_AP_RXD_M
AP到硬盘的复位信号	RESET*	U2600-L4	AP_TO_NAND_RESET_L
PCIe接口硬盘的参考电压	PCIE_RESREF	U2600-H7	PCIE_NAND_RESREF
硬盘片内精密电阻的片端电压	Z0_C	U2600-K3	NAND_Z0_AW
硬盘的片端电压	Z0_N	U2600-C13	NAND_Z0_NAND
	TRST*	U2600-G10	

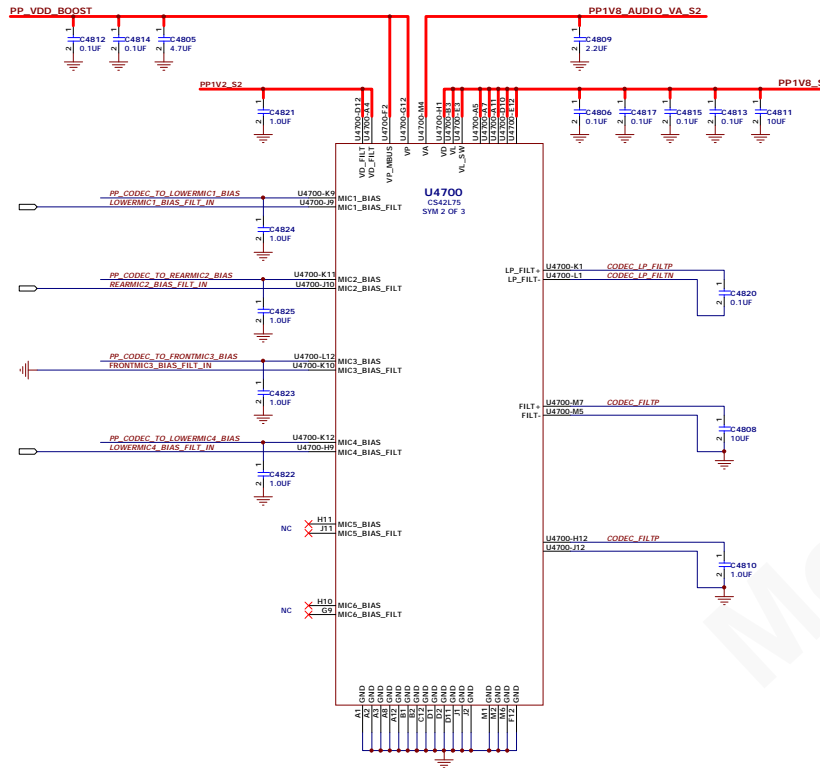
CALLAN AUDIO CODEC (ANALOG INPUTS & OUTPUTS)

语音编解码 1



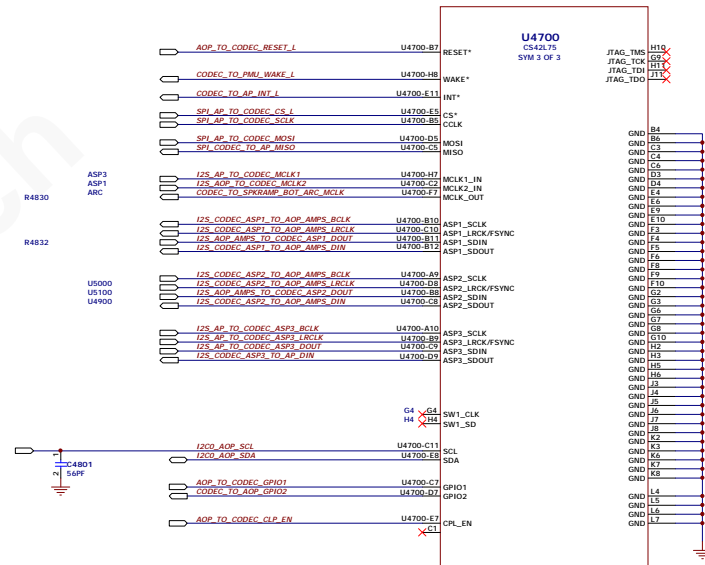
CALLAN AUDIO CODEC (POWER & I/O)

语音编解码 2

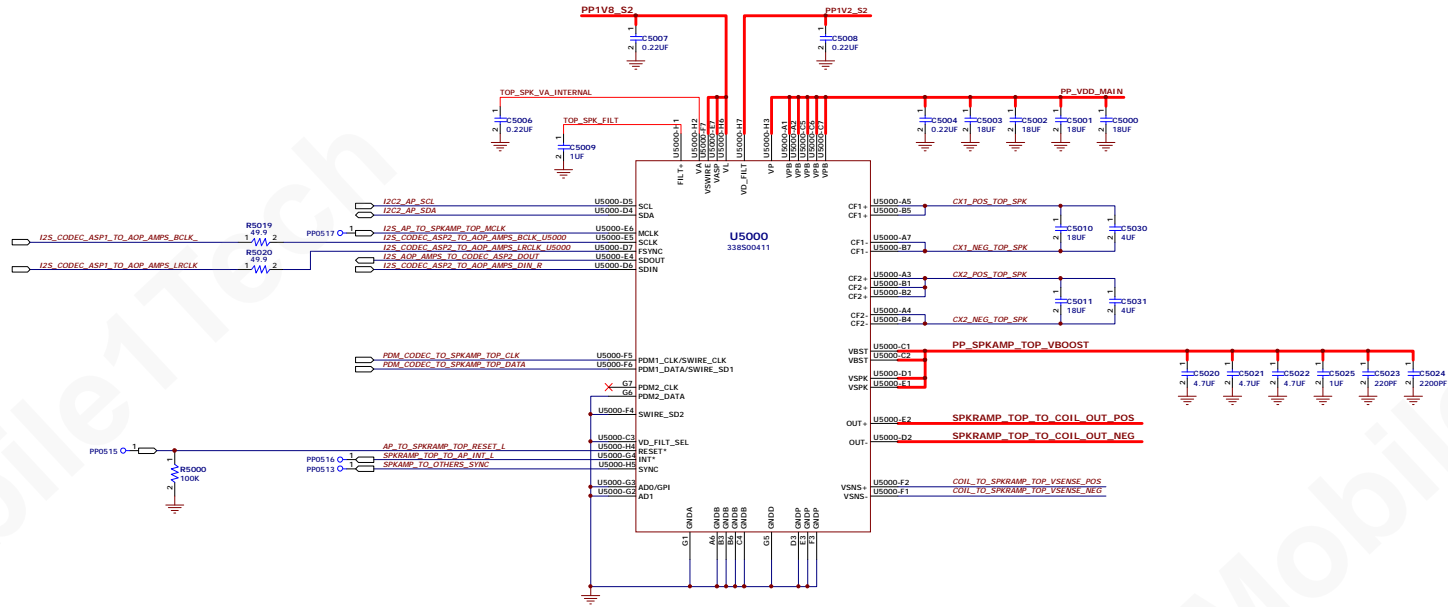


CALLAN AUDIO CODEC (POWER & I/O)

语音编解码 3

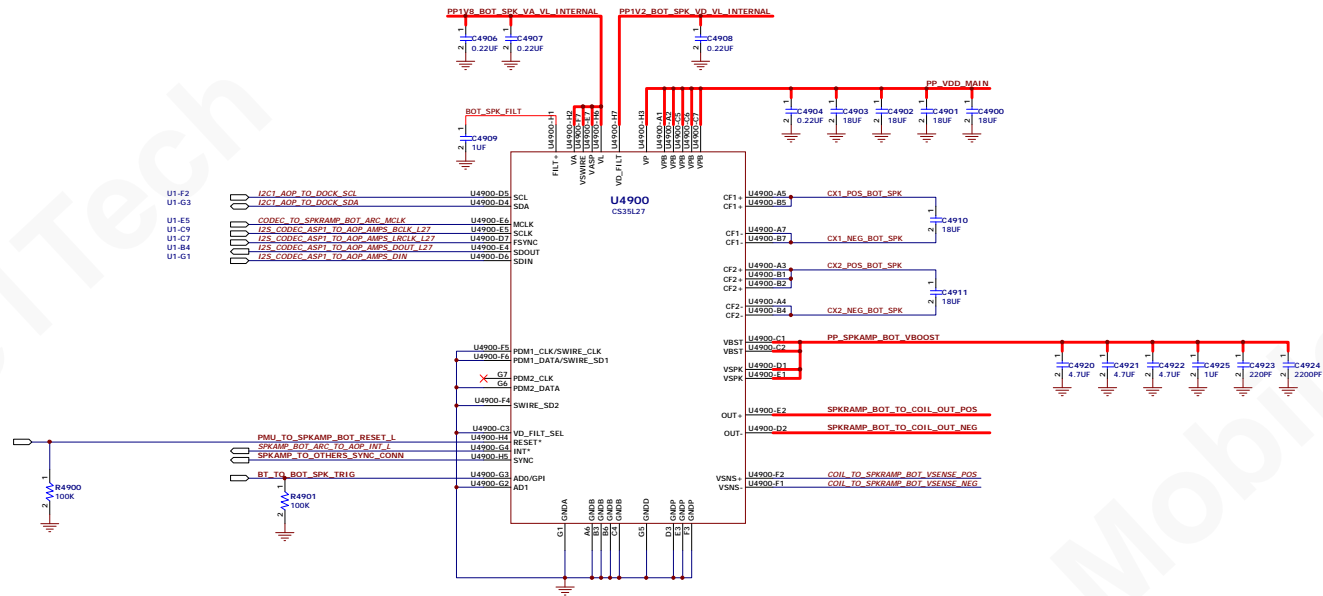


TOP SPKAMP 听筒音频放大器

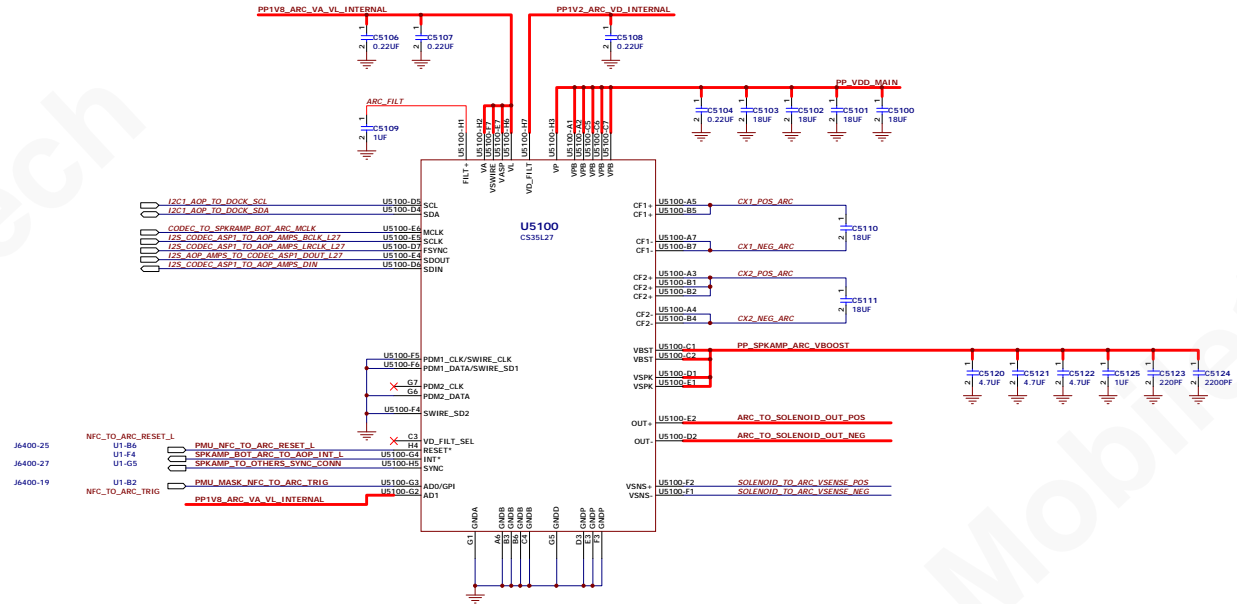


BOT SPKAMP

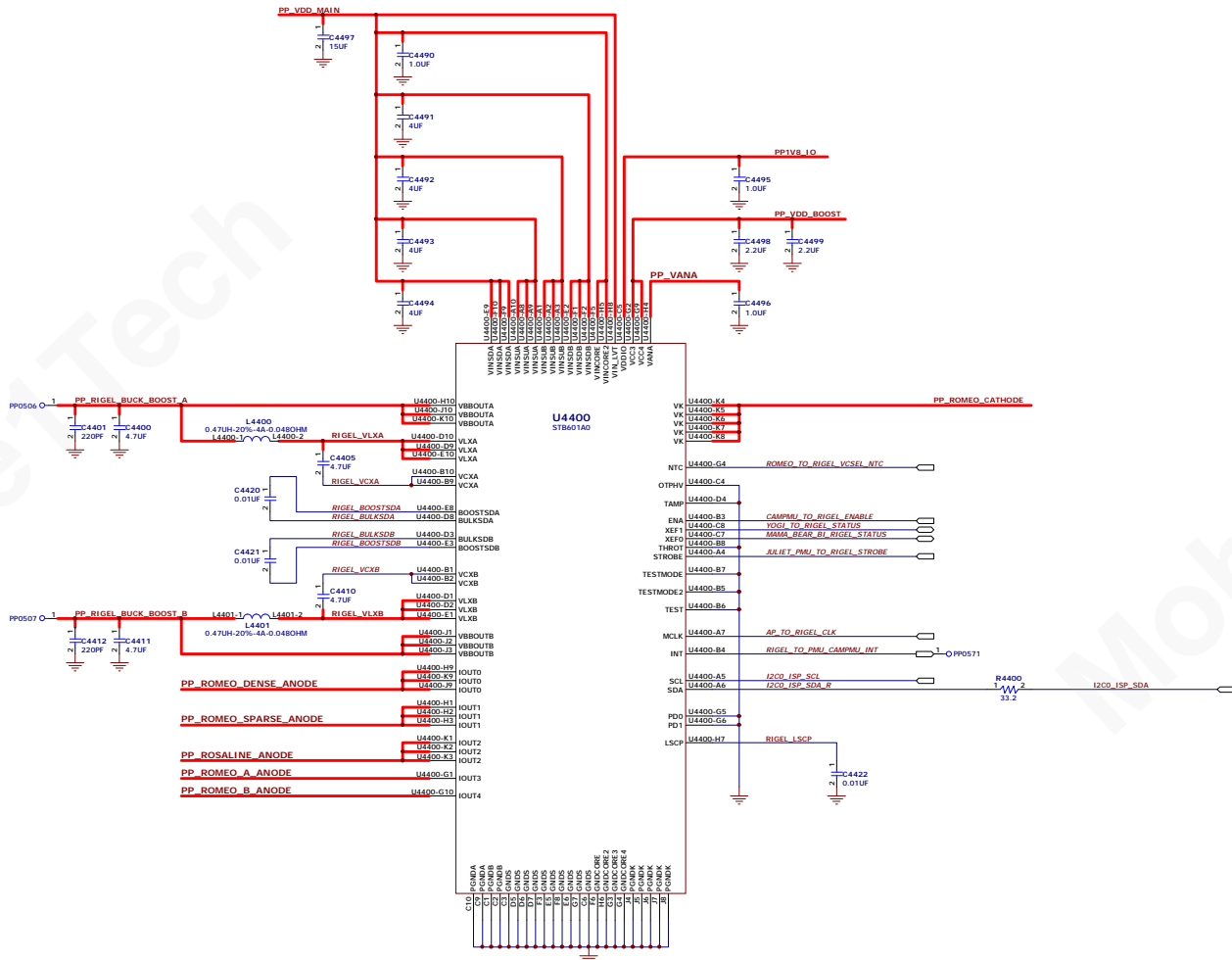
底部扬声器功放



ARC: AMP 震动驱动器

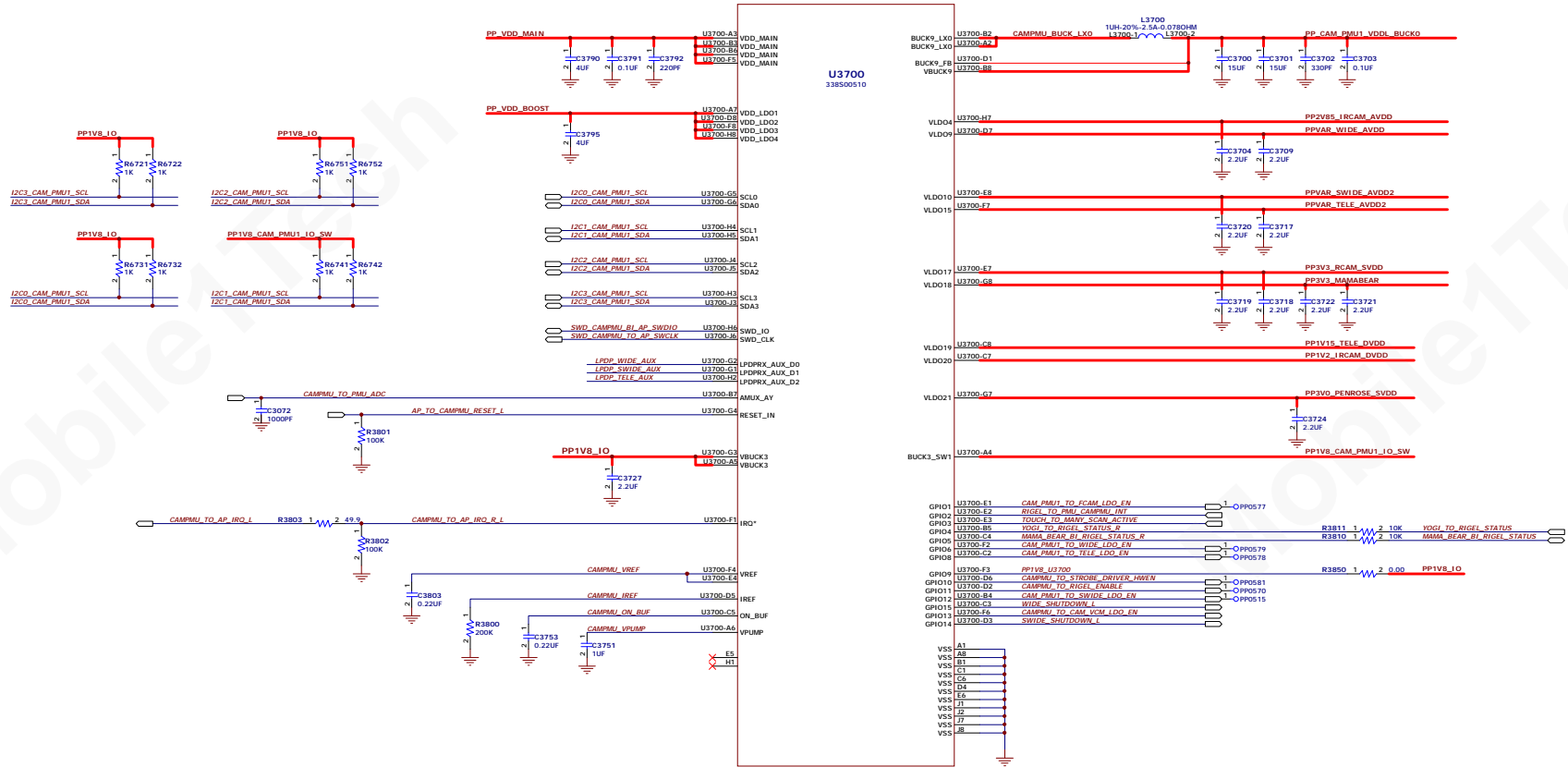


Rigel Driver 红外电源



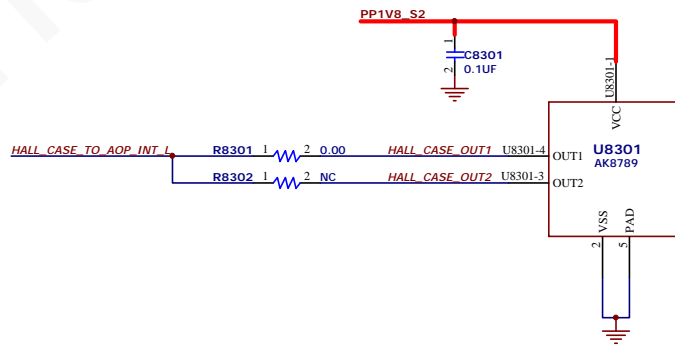
CAMERA: PMU

相机电源



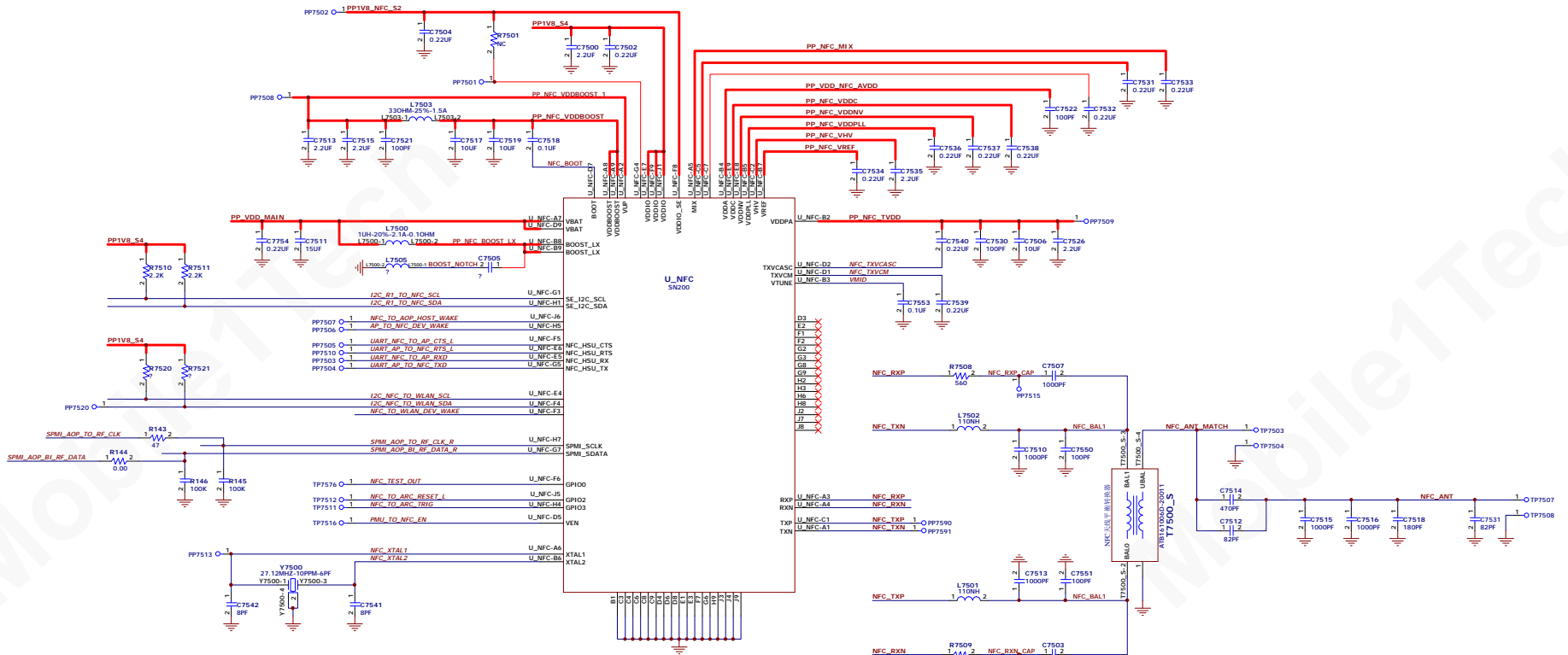
HALL

霍尔传感器 (开关)

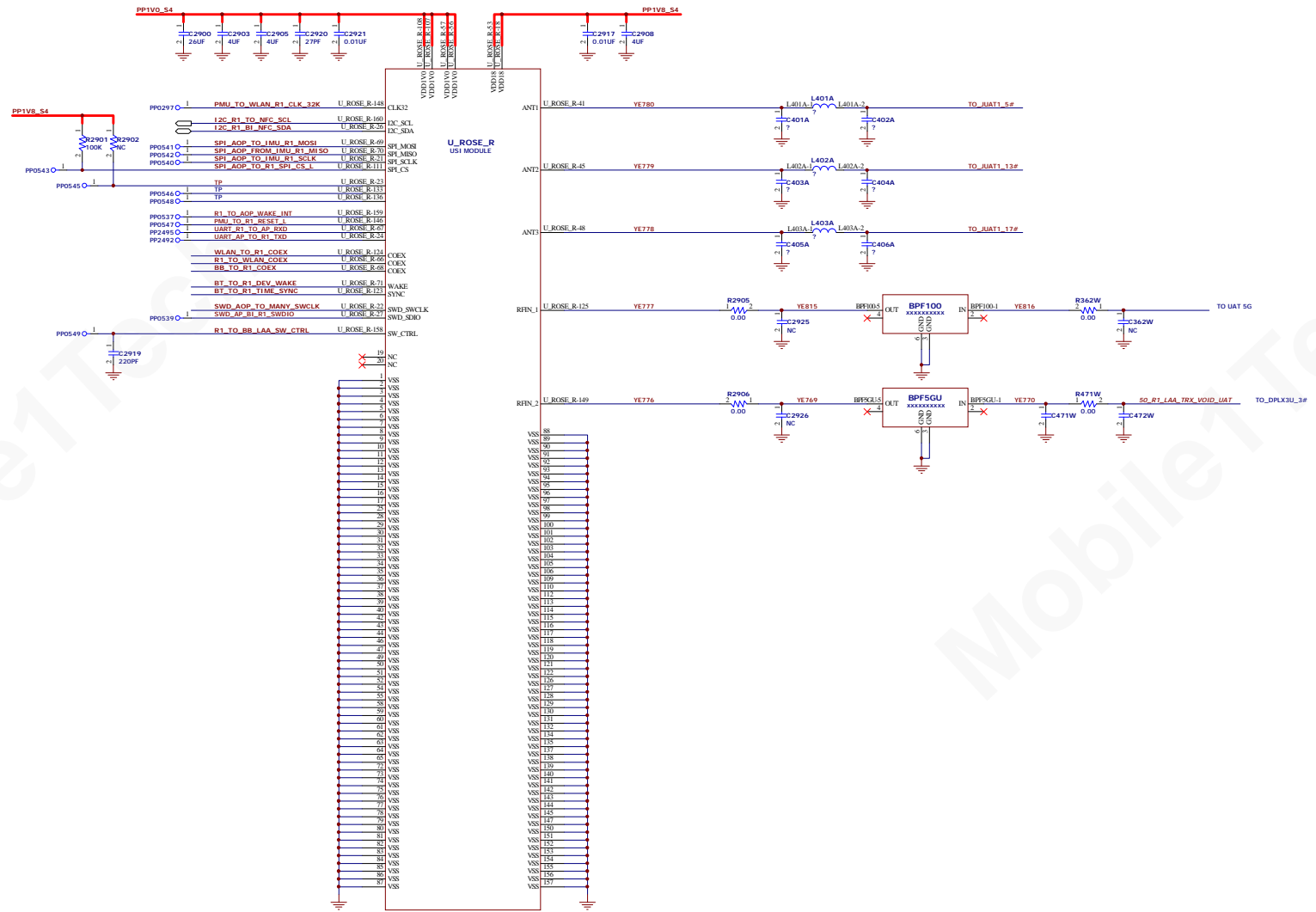


STOCKHOLM

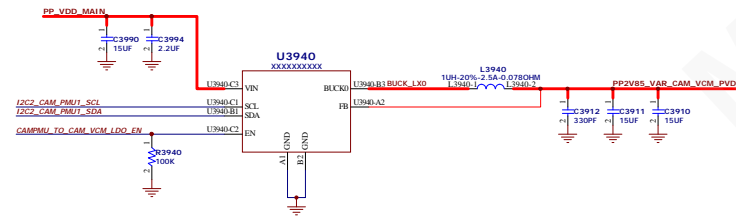
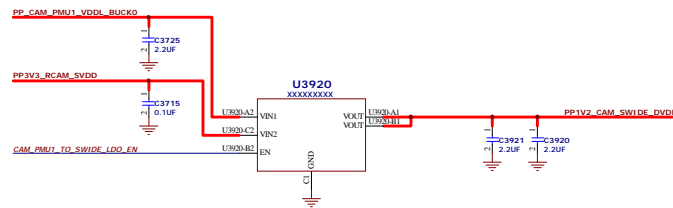
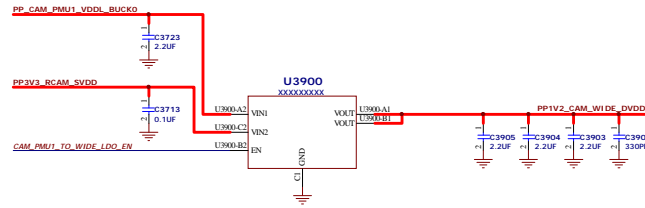
近场通讯 (NFC)



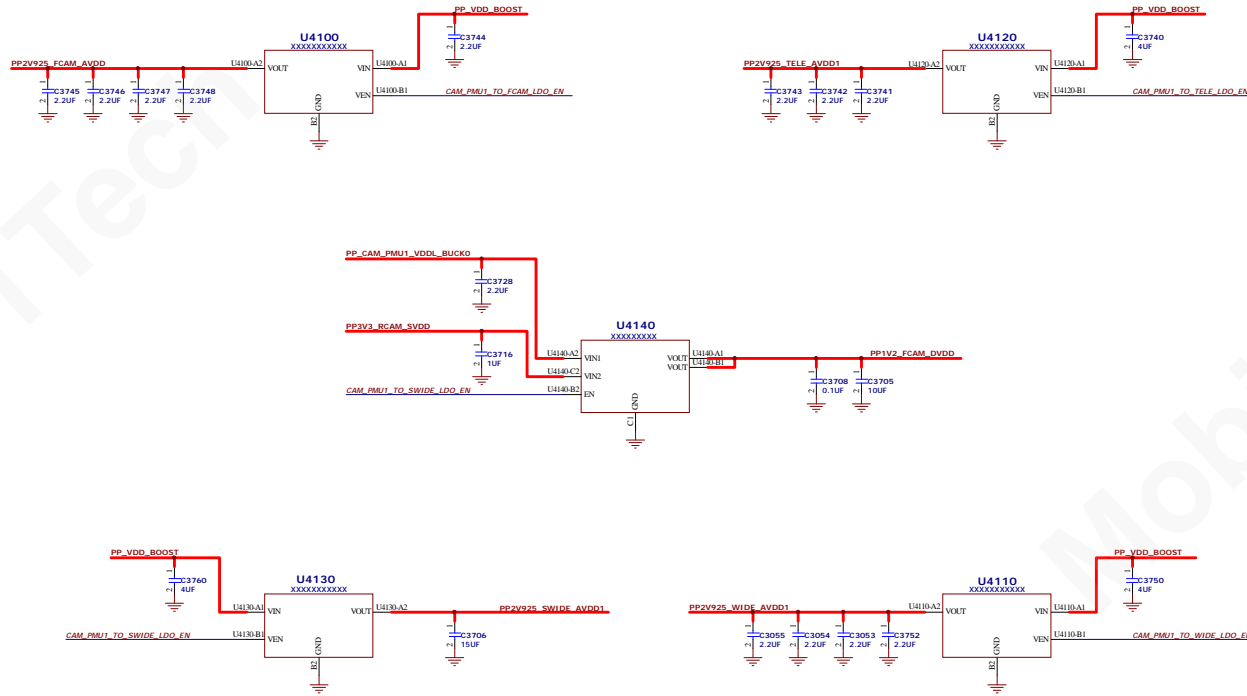
U_ROSE 微定位模组

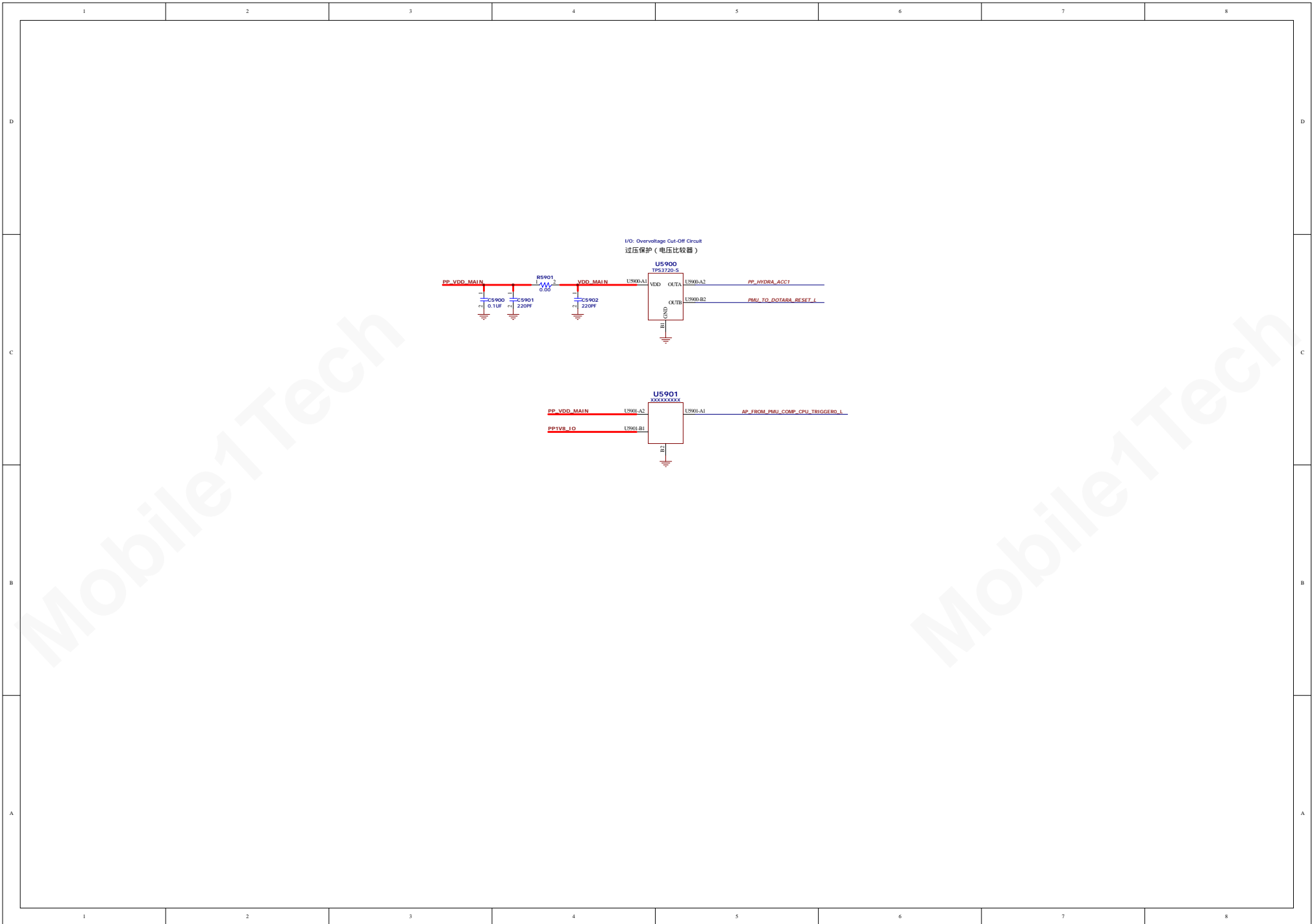


U3900//U3920//U3940 直流变换器



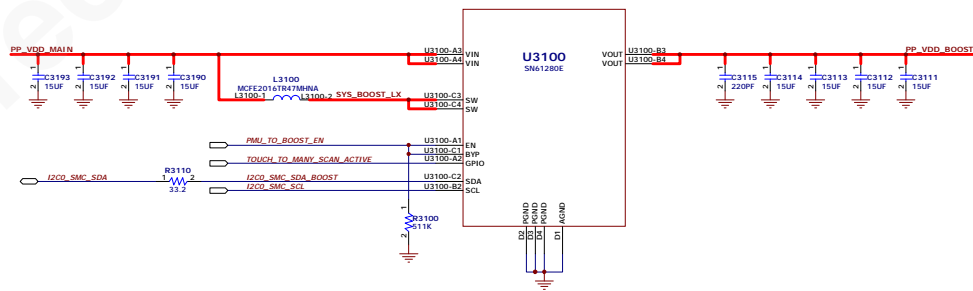
U4100/U4110/U4120/U4130/U4140 直流变换器



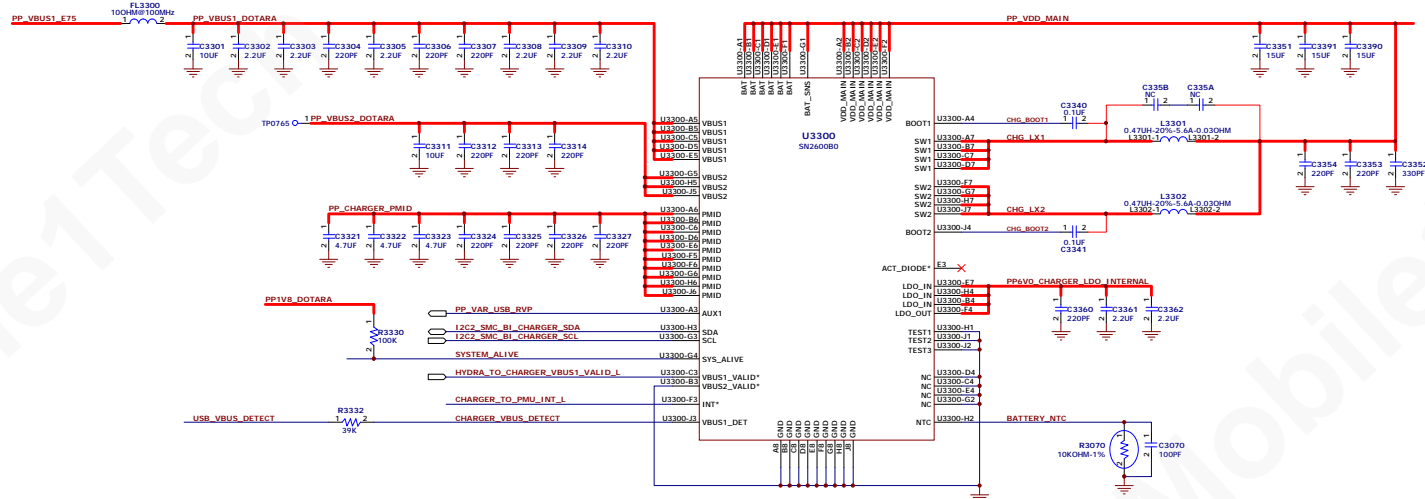


BOOST
SYSTEM POWER: Boost

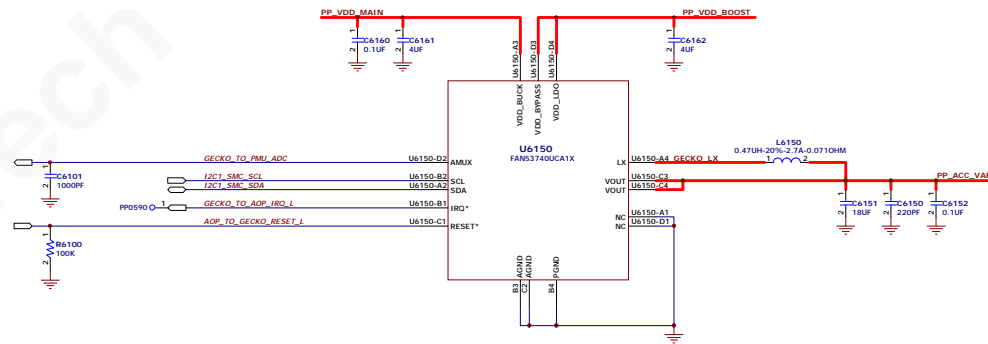
主系统电源升压 3.4V to 3.4V



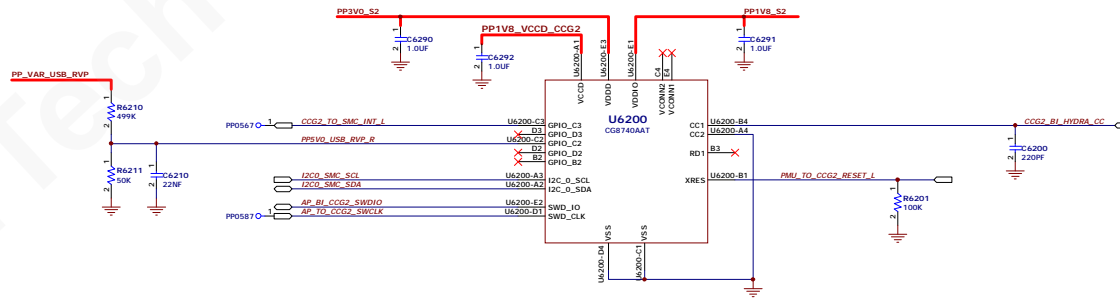
CHARGER 充电芯片



附件通道供电 Gecko

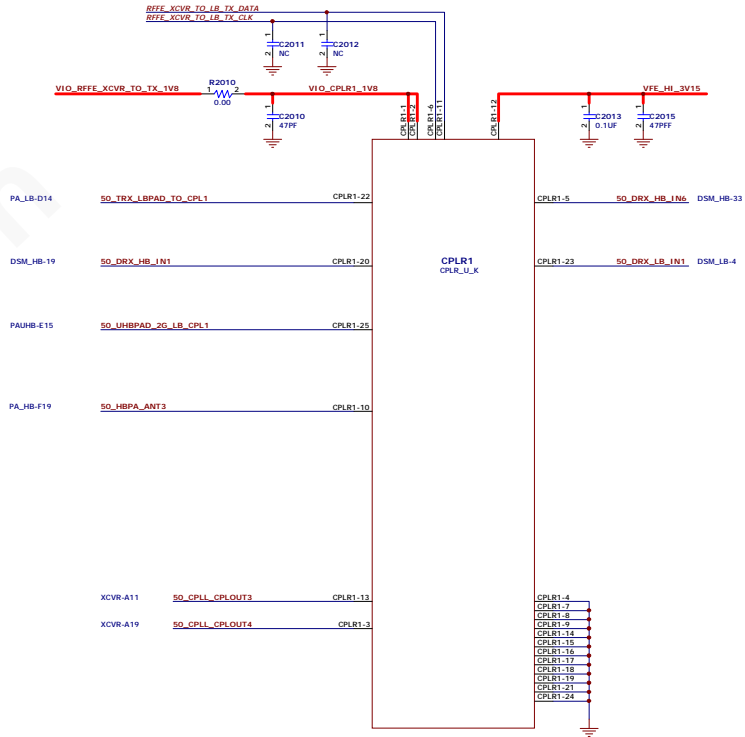


USB-PD PD快充控制器



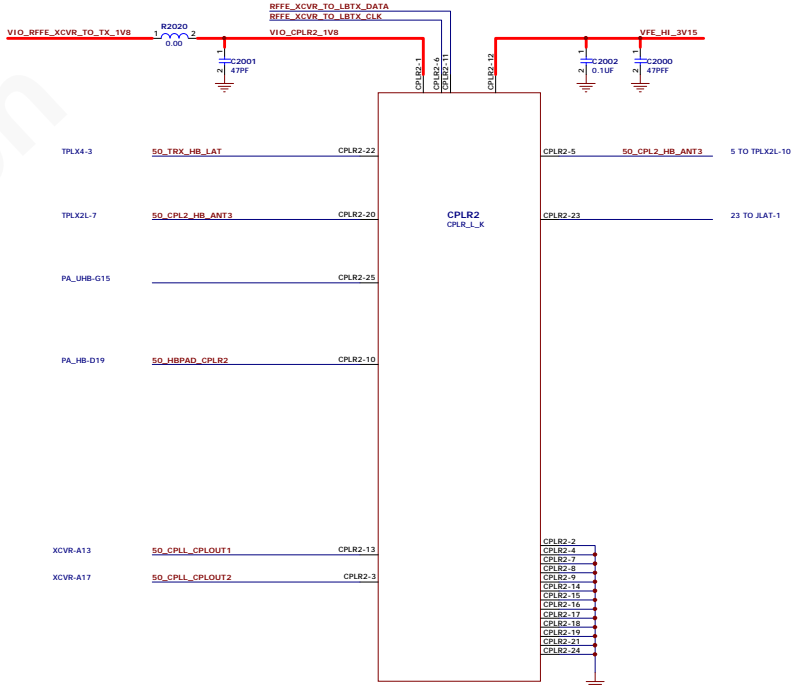
UPPER ANTENNA AND COUPLER

副天线耦合器



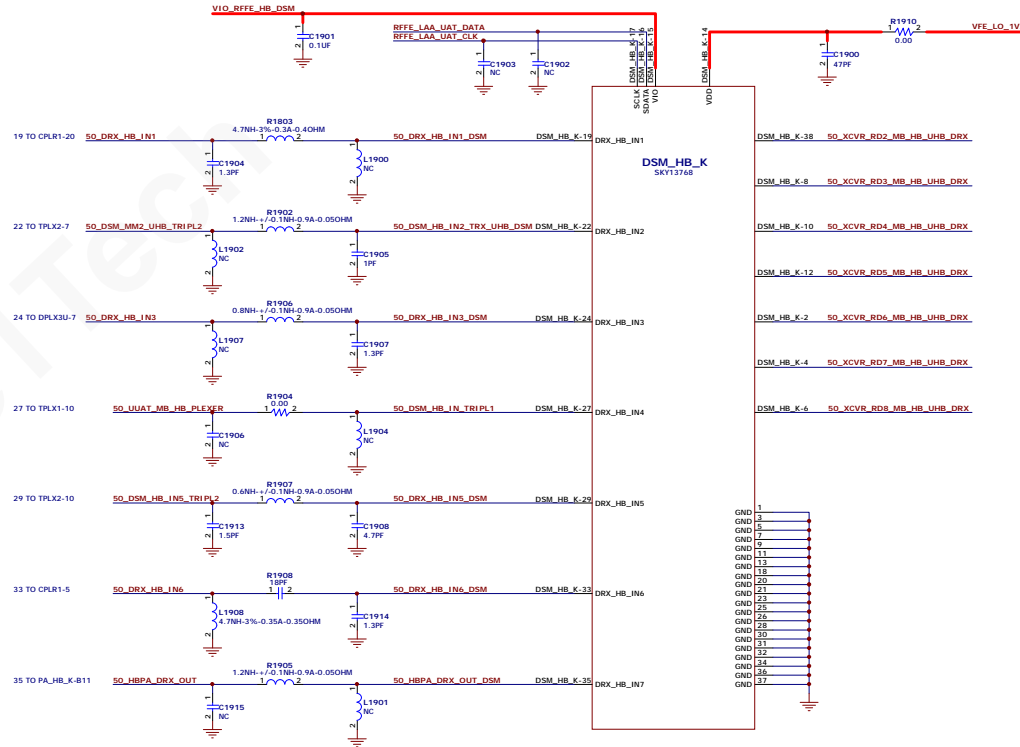
LOWER ANTENNA AND COUPLER

主天线耦合器



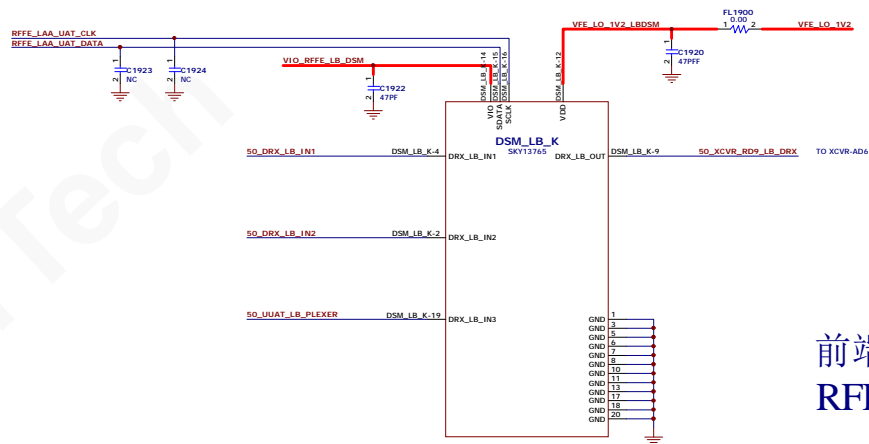
HB DIVERSITY RECEIVE LNA

高频多样性接收



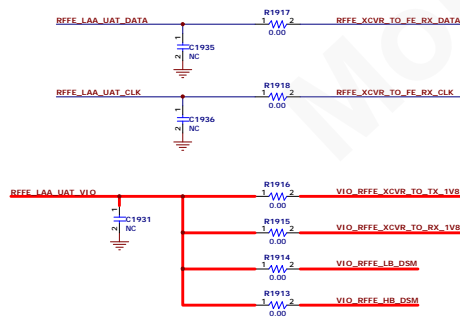
LB DIVERSITY RECEIVE LNA

低频多样性接收



前端总线滤波电路

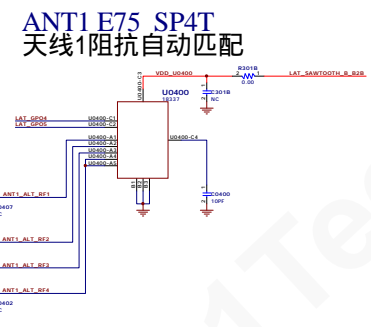
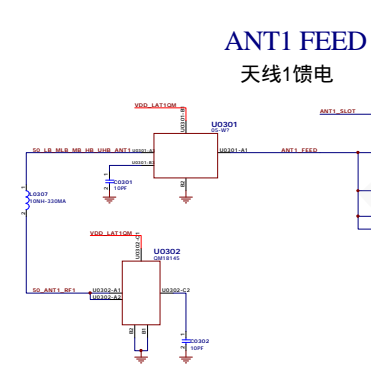
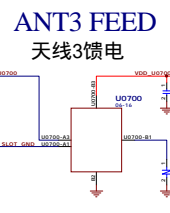
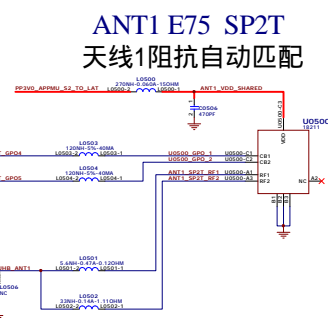
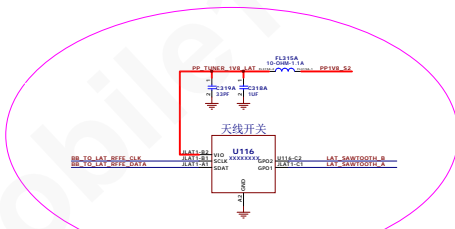
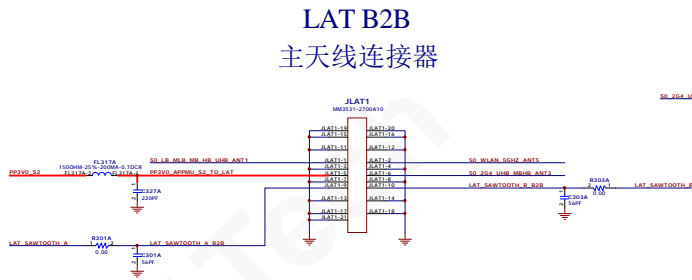
RFFE FILTERING



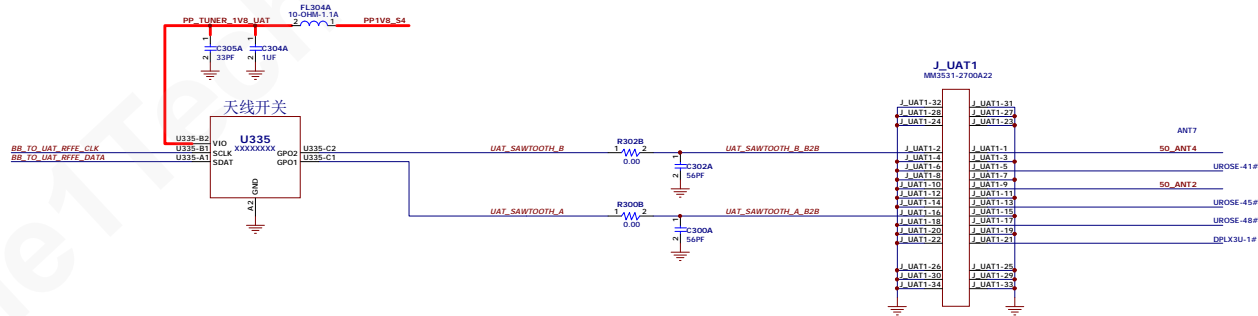
Charger Board Interposer

充电板内连器

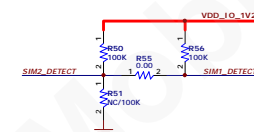
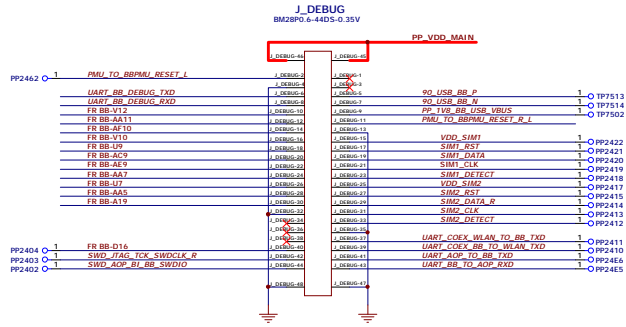
J_INT_CHR		SMT-PAD		J_INT_CHR		SMT-PAD		U3-D2#		U3-C1#		U3-D4#		U3-D1#	
GND	1	IO1	46	???											
GND	2	IO2	47	GND											
BUTTON_VOL_UP_L_CONN	3	IO3	48	???											
GND	4	IO4	49	???											
BUTTON_RINGER_A_CONN	5	IO5	IO49	J INT CHR-50	PP_VBUS1_E75										
GND	6	IO6	IO50	J INT CHR-51	PP_VBUS1_E75										
I2C2_SMC_BI_CHARGER_SDA	J INT CHR-7	IO7	IO51	52	GND										
I2C1_AOP_SDA	J INT CHR-8	IO8	IO52	J INT CHR-53	PP_VBUS1_E75										
I2C2_SMC_BI_CHARGER_SCL	J INT CHR-9	IO9	IO53	J INT CHR-54	PMU_TO_DOTARA_EN_EXT_1V8										
GND	10	IO10	IO54	55	GND										
GND	11	IO11	IO55	J INT CHR-56	CLK_BBPMU_TO_DOTARA_38M4_1V8_CONN										
GND	12	IO12	IO56	J INT CHR-57	PP_VAR_USB_RVP										
I2C1_AOP_SCL	J INT CHR-13	IO13	IO57	J INT CHR-58	HYDRA_TO_CHARGER_VBUS1_VALID_L										
GND	14	IO14	IO58	59	GND										
I2S_CODEC_ASP1_TO_AOP_AMPS_LRCLK_L27	J INT CHR-15	IO15	IO59	60	GND										
GND	16	IO16	IO60	J INT CHR-61	TOUCH_TO_MANY_SCAN_ACTIVE										
GND	17	IO17	IO61	J INT CHR-62	CHARGER_CHECK										
GND	18	IO18	IO62	J INT CHR-63	CHARGER_TO_PMU_INT_L										
GND	19	IO19	IO63	J INT CHR-64	PMU_TO_DOTARA_RESET_L										
GND	20	IO20	IO64	J INT CHR-65	LOWERMIC4_BIAS_FILT_IN										
GND	21	IO21	IO65	J INT CHR-66	LOWERMIC4_TO_CODEC_AIN4_P										
GND	22	IO22	IO66	J INT CHR-67	LOWERMIC4_TO_CODEC_AIN4_N										
GND	23	IO23	IO67	J INT CHR-68	COIL_TO_SPKRAMP_BOT_VSENSE_POS										
GND	24	IO24	IO68	J INT CHR-69	PP_CODEC_TO_LOWERMIC4_BIAS_CONN										
GND	25	IO25	IO69	70	GND										
GND	26	IO26	IO70	71	GND										
PP_VDD_MAIN	J INT CHR-27	IO27	IO71	J INT CHR-72	SPKRAMP_BOT_TO_COIL_OUT_POS										
PP_VDD_MAIN	J INT CHR-28	IO28	IO72	J INT CHR-73	COIL_TO_SPKRAMP_BOT_VSENSE_NEG										
PP_VDD_MAIN	J INT CHR-29	IO29	IO73	J INT CHR-74	USB_VBUS_DETECT										
GND	30	IO30	IO74	J INT CHR-75	SPKRAMP_BOT_TO_COIL_OUT_NEG										
ARC_TO_SOLENOID_OUT_POS	J INT CHR-31	IO31	IO75	J INT CHR-76	BUTTON_VOL_DOWN_L_CONN										
PP_VBUS2_DOTARA	J INT CHR-32	IO32	IO76	J INT CHR-77	PP1V8_DOTARA										
ARC_TO_SOLENOID_OUT_NEG	J INT CHR-33	IO33	IO77	J INT CHR-78	PP1V8_S2										
SOLENOID_TO_ARC_VSENSE_POS	J INT CHR-34	IO34	IO78	79	GND										
GND	35	IO35	IO79	80	GND										
SOLENOID_TO_ARC_VSENSE_NEG	J INT CHR-36	IO36	IO80	81	GND										
SPMI_PMGR_TO_PMU_SCLK_CONN	J INT CHR-37	IO37	IO81	82	GND										
SPMI_PMU_BI_PMGR_SDATA_CONN	J INT CHR-38	IO38	IO82	83	GND										
???	J INT CHR-39	IO39	IO83	84	GND										
GND	40	IO40	IO84	85	GND										
I2S_AOP_AMPS_TO_CODEC_ASP1_DOUT_L27	J INT CHR-41	IO41	IO85	86	X										
GND	42	IO42	IO86	87	X										
I2S_CODEC_ASP1_TO_AOP_AMPS_BCLK_L27	J INT CHR-43	IO43	IO87												
RT2	J INT CHR-44	IO44													
RT1	J INT CHR-45	IO45													



UAT B2BS 副天线连接器



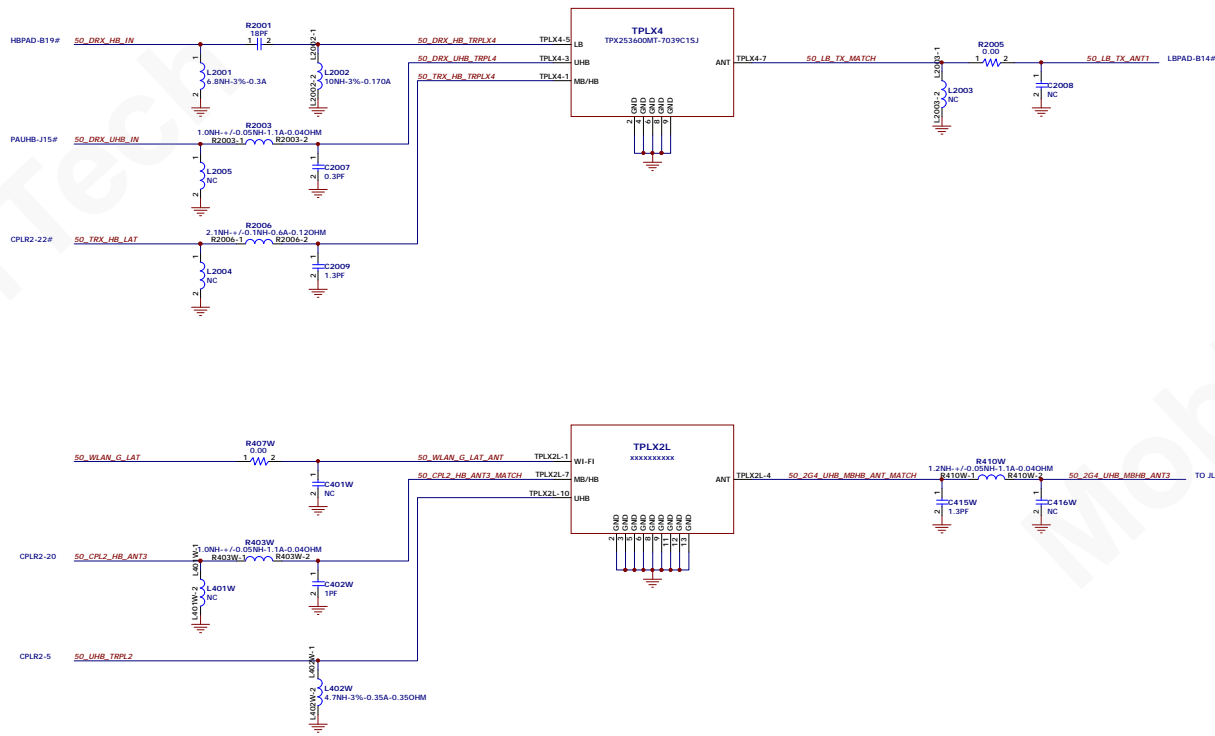
DEBUG CONNECTOR 调试连接器



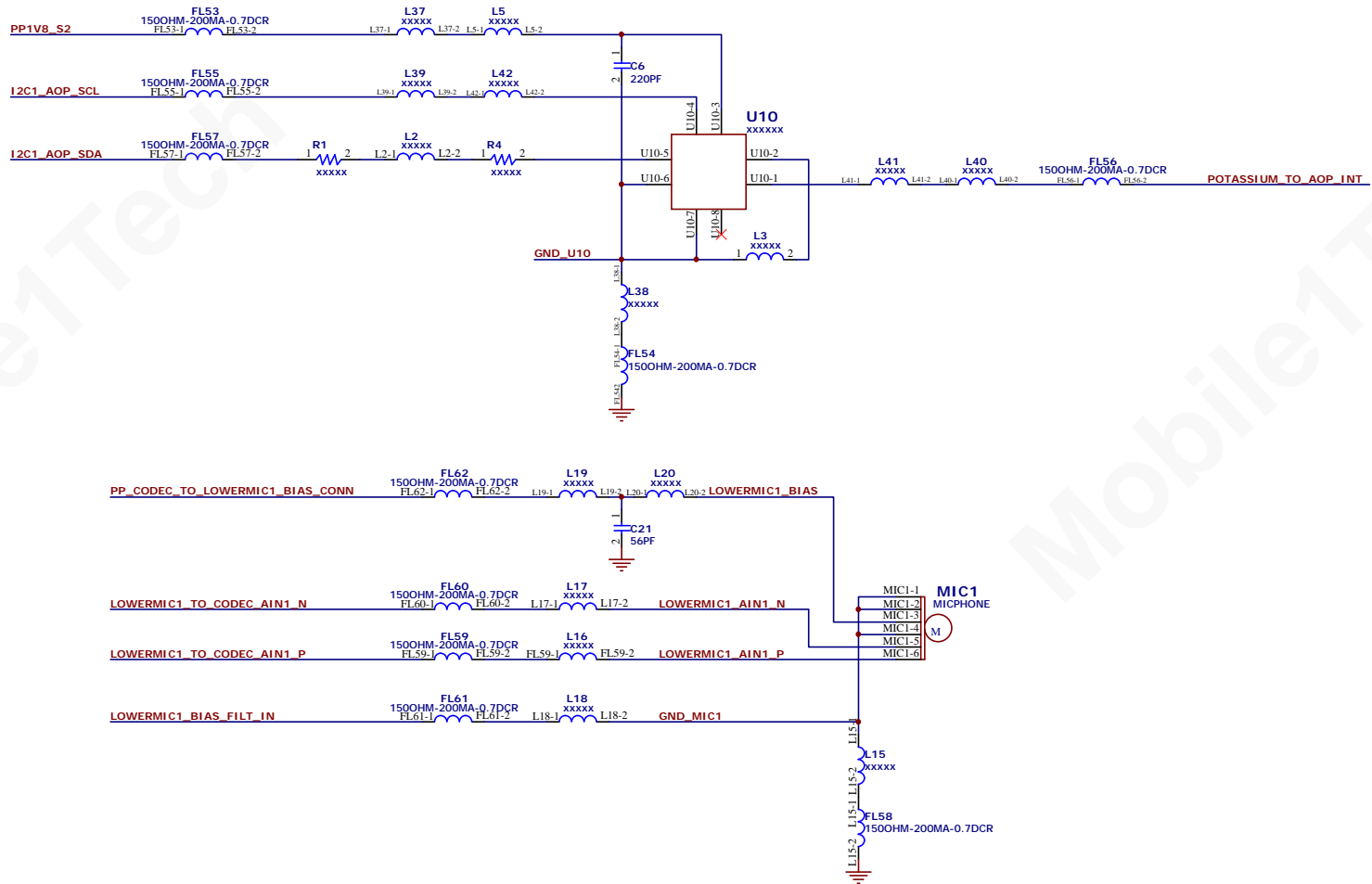
LAT ANTENNA FEEDS

LOWER ANTENNA & COUPLER

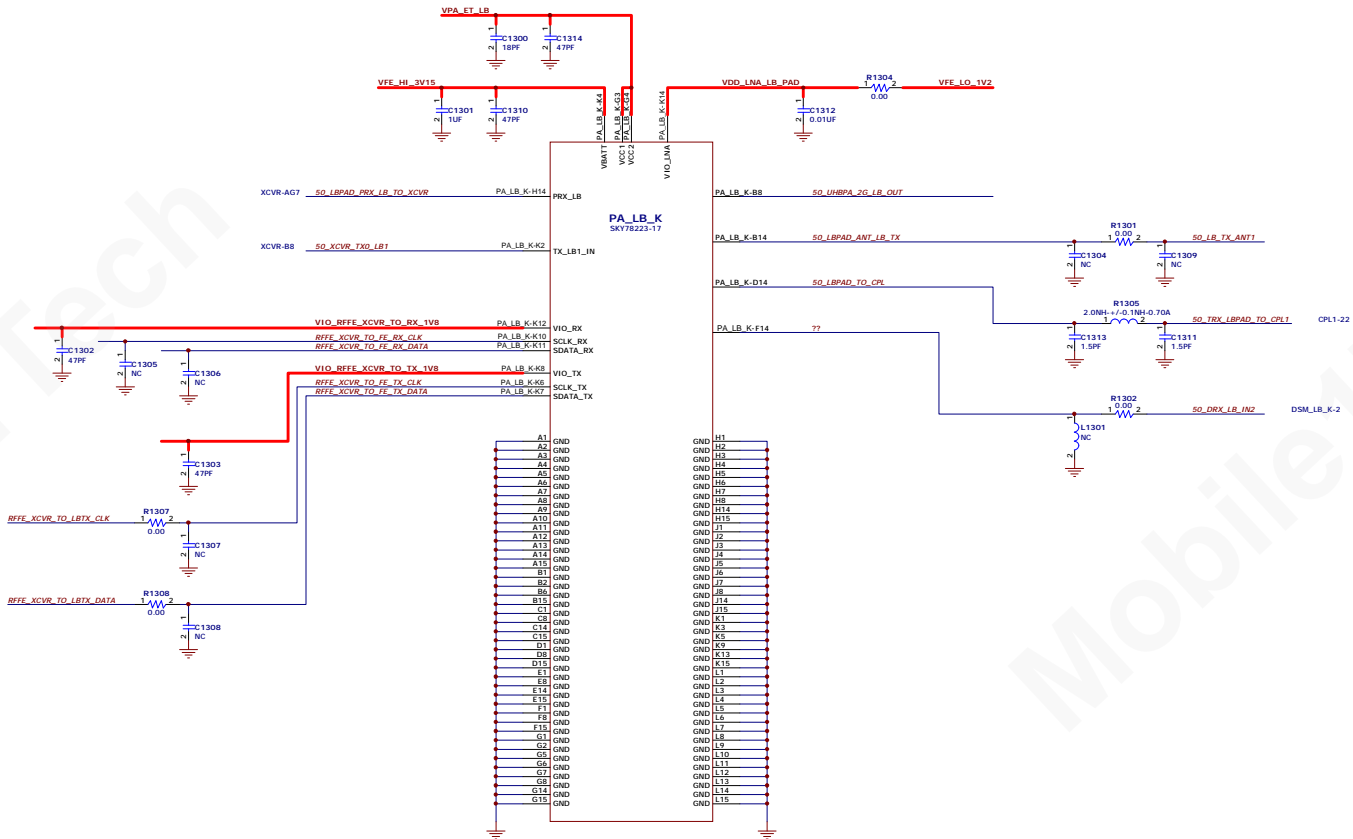
主天线馈电



LOWERMIC1 底部麦克风



低频段射频功放 LB SPAD



UHB LMB SPAD

超高频段功率放大器

