[A5] SM-A500F/DS REV1.0 BOM

2014.10.14.

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sheet01 : RF PAM
sheet02 : WTR1605L or WTR1605(TRANCEIVER), BT/WIFI, GPS, NFC
sheet03 : MSM8916 or MSM8216(AP)
sheet04 : PM8916(PMIC),eMCP
sheet05 : AUDIO, SUB PBA CONNECTOR
sheet06 : 5" HD OCTA, CAM PART, SD CARD, MOT
sheet07 : SENSOR, Charger, MUIC

Engineer							
Drawn by							
R&D CHK					TITLE		Size A2
DOC CTRL CHK					SM-A500F(A5 EUR LTE)		
MFG ENGR CHK							
QA CHK					REV	Drawing Number	Sheet 0/8
Changed by	Date Changed						

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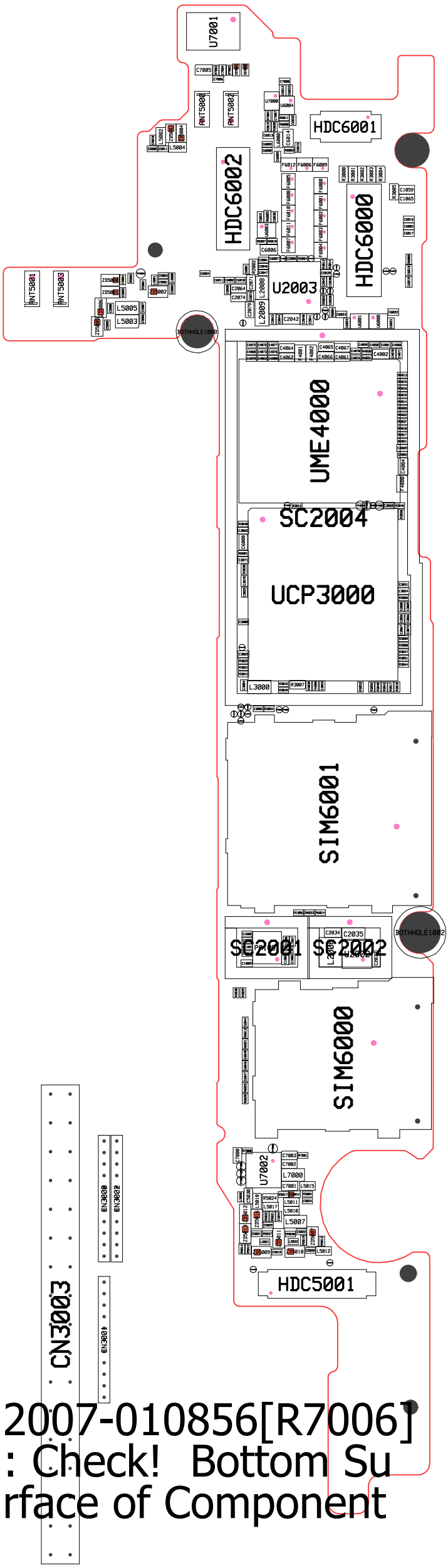

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2007-010856[R7006]
: Check! Bottom Su
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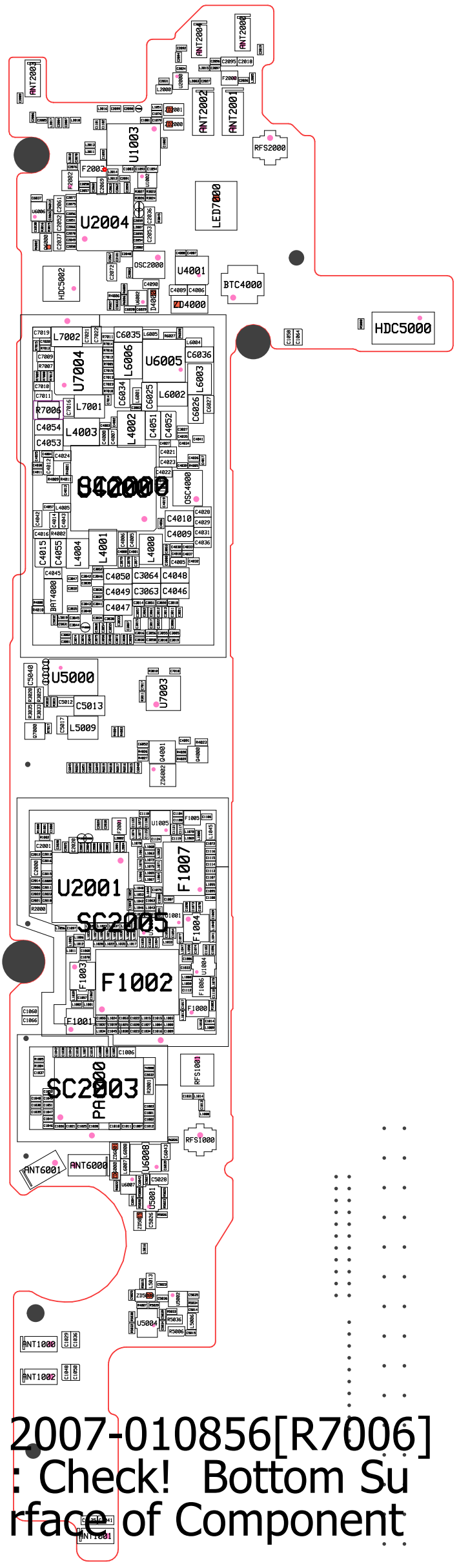

2007-010856[R7006] : Check! Bottom Surface of Component

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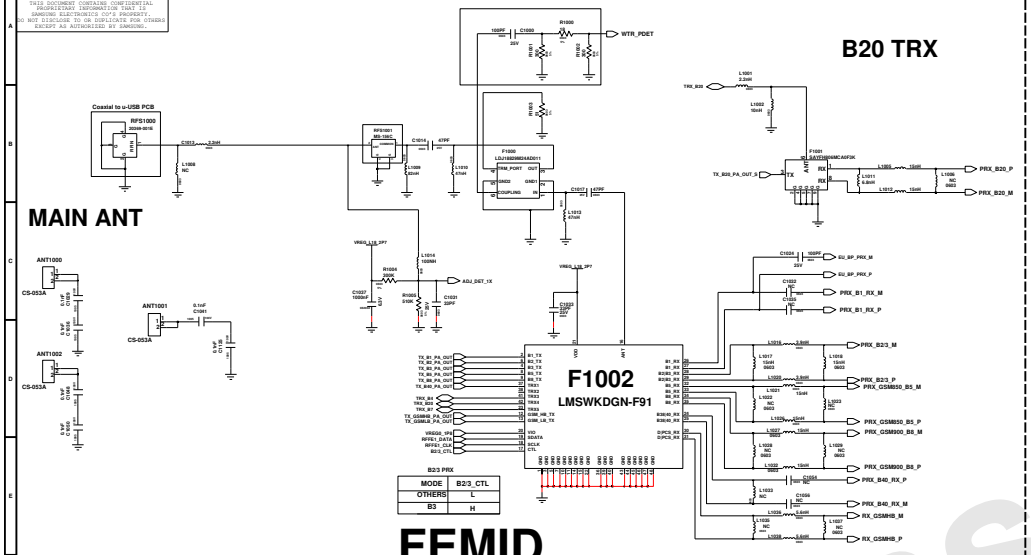
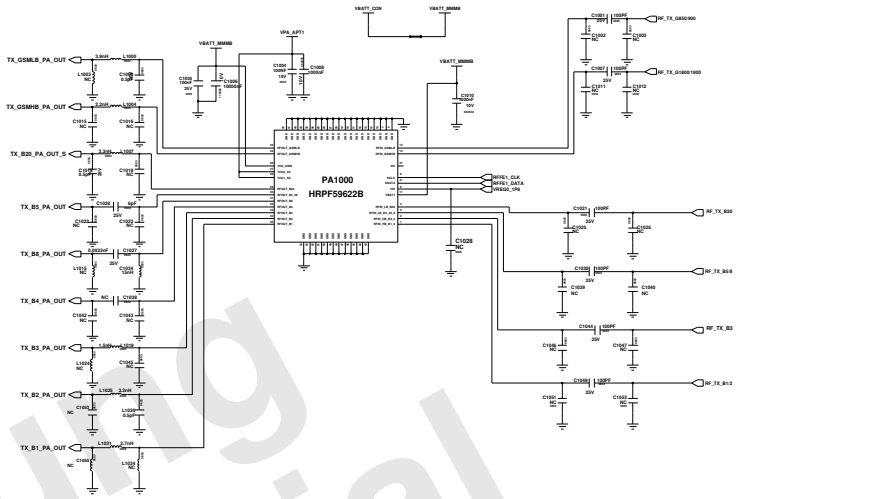
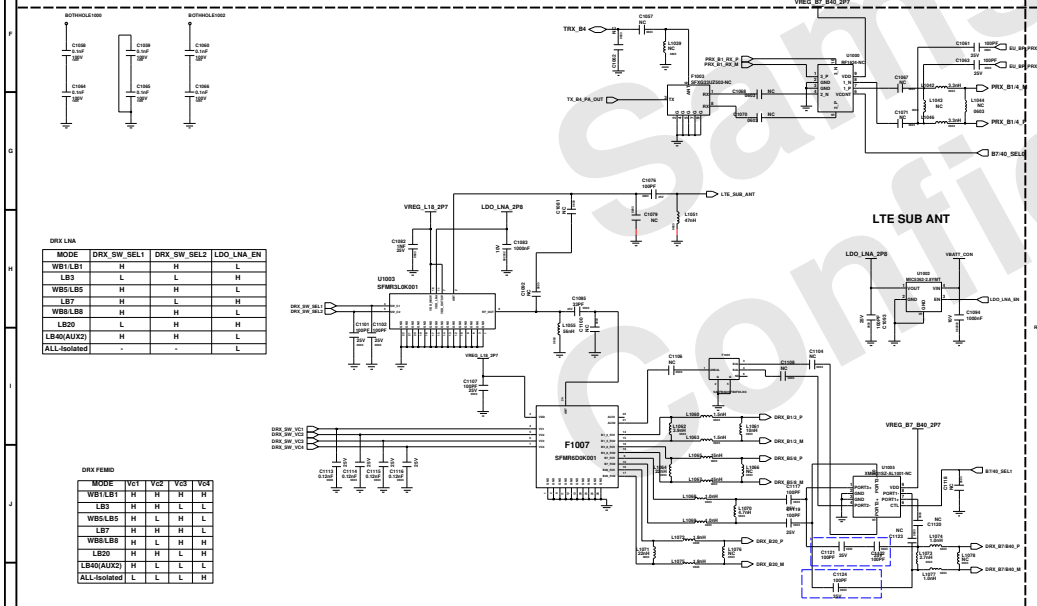


FEMID



BAND1/2/3/5/8/20, GSM QUAD MMMB PA



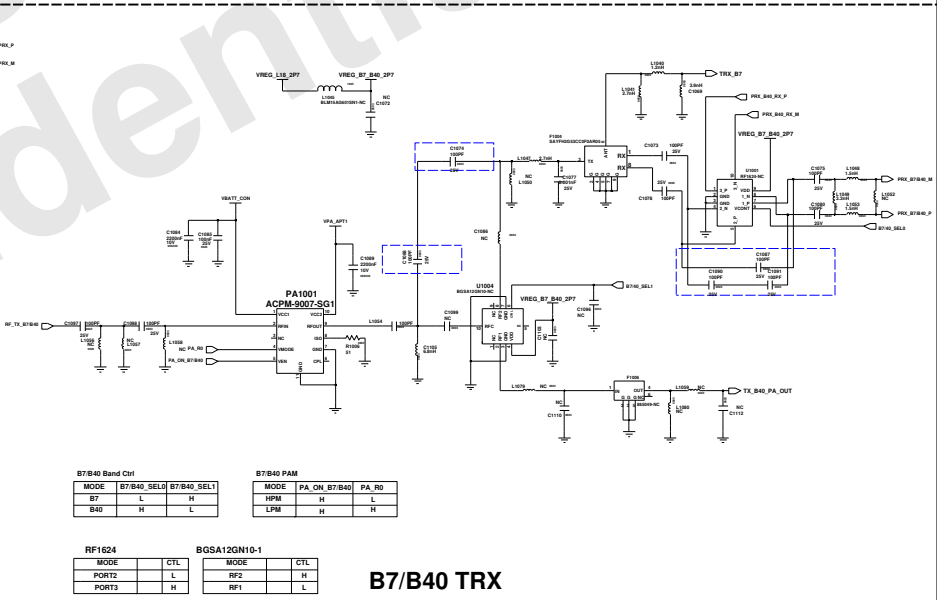
DRX LNA

MODE	DRX_SW_SEL1	DRX_SW_SEL2	LDO_LNA_EN
WB1/LB1	H	H	L
LB3	L	L	H
WB5/LB5	H	H	L
LB7	L	H	H
WB8/LB8	H	H	L
LB20	L	H	H
LB40(AUX2)	H	H	L
ALL-Isolated	-	-	L

DRX FEMID

MODE	Vc1	Vc2	Vc3	Vc4
WB1/LB1	H	H	H	H
LB3	H	H	L	L
WB5/LB5	H	L	H	L
LB7	H	H	H	L
WB8/LB8	H	L	H	H
LB20	H	H	L	H
LB40(AUX2)	H	L	L	L
ALL-Isolated	L	L	L	H

DIVERSITY
(W-B1,5,8 / LTE-B1,3,5,7,8,20,40)



B7/B40 Band Ctrl

MODE	B7/B40_SEL0	B7/B40_SEL1
B7	L	H
B40	H	L

B7/B40 PAM

MODE	PA_ON_B7/B40	PA_R0
HPM	H	L
LPM	H	H

RF1624

MODE	CTL
PORT2	L
PORT3	H

BGSA12GN10-1

MODE	CTL
RF2	H
RF1	L

B7/B40 TRX

Engineer	AUDIO / MOTOR / KEY
Master by	
R&D CHK:	TITLE:
DOC CTRL CHK:	SM-A500F(A5 EUR LTE)
MFG ENGR CHK:	
QA CHK:	Drawing Number

Changed by:	Date Changed:	Time Changed:	Size: A3	Rev:

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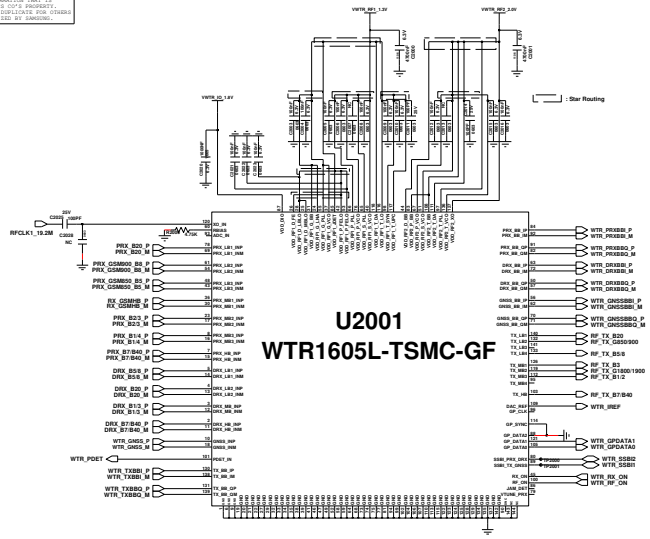
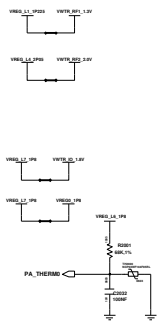
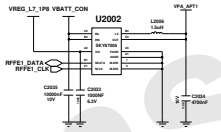
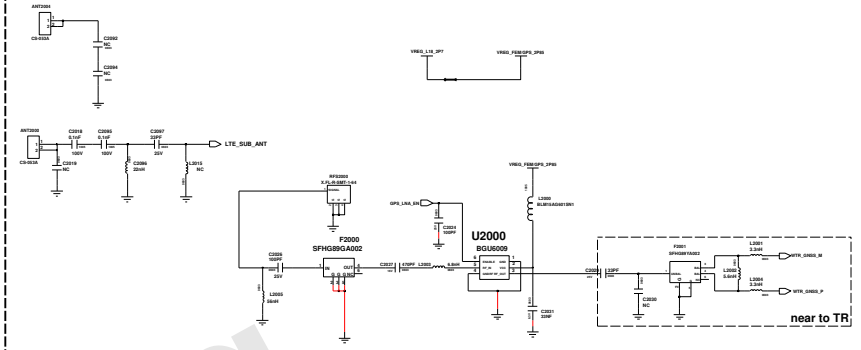


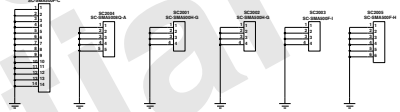
RF Transceiver



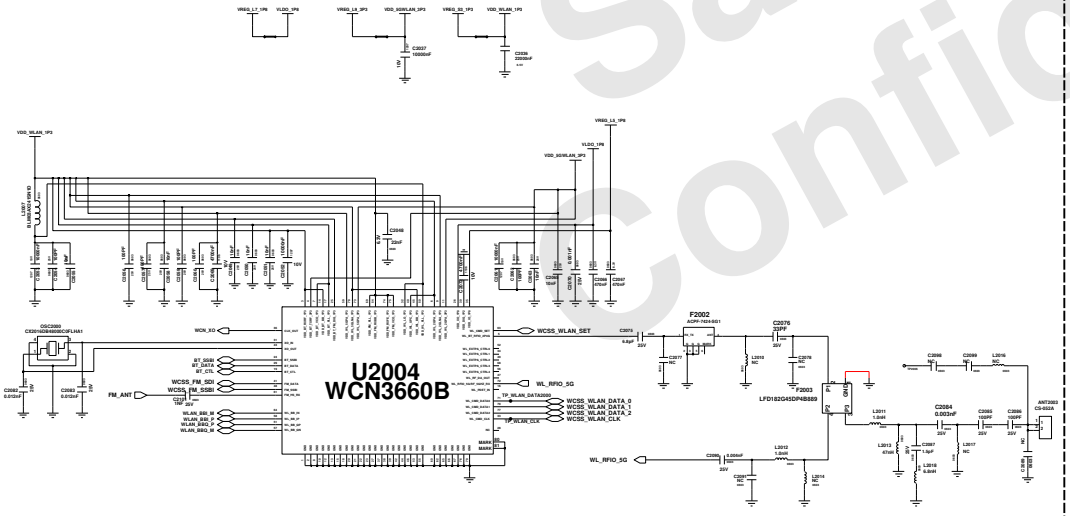




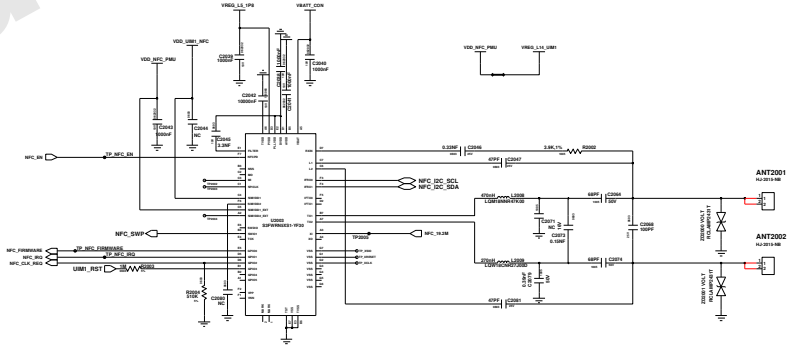
GPS / GNSS



SHIELDCAN



BT/WIFI ANT



NFC

Engineer	CONNEOCTIVITY
Issued by	
R&D CHK	TITLE: SM-A500F(A5 EUR LTE)
DOC CTRL CHK	
BPG ENGR CHK	
QA CHK	Drawing Number

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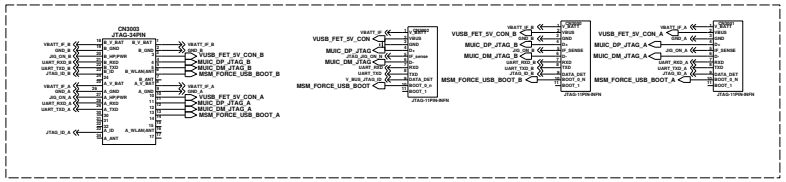
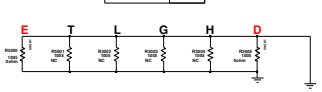
AP PART (MSM8916)

A5 Global	SHORT
SM-A500F/DS	E, D
SM-A500F/SS	E
SM-A500G/DS	G, D
SM-A500G/SS	G
SM-A500H/DS	H, D
SM-A500H/SS	H

PCB JTAG

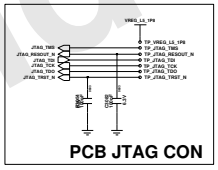


Solder Bridge



UCP3000-1
MSM8916-6

UCP3000-2
MSM8916-6



HW REVISION

SM-A500F_H(A5 LTE)	
0000	Bringup
0001	REV0.0
0010	REV0.1
0011	REV0.2
0100	REV0.3 REV0.4
0101	REV0.5 f
0110	REV0.6 g
0111	REV0.7 h
1000	REV0.8 REV0.8Z i
1001	REV0.9 j
1010	REV1.0 k

B40 PLACE O/X		DUAL_SIM_DET	
High	B40 X	High	Dual
Low	B40 O	Low	Single

A5 Global	B40_SEL	SIM_SEL
SM-A500F/DS	1	1
SM-A500F/SS	1	0
SM-A500G/DS	0	1
SM-A500G/SS	0	0
SM-A500H/DS	NC	1
SM-A500H/SS	NC	0

Engineer:	AP
Designed by:	
Drawn by:	
Appd by:	
PBDT CHK:	TITLE:
	SM-A500F(A5 EUR LTE)
DOC CTRL CHK:	
BPG ENGR CHK:	
QA CHK:	REV: Drawing Number: Page:

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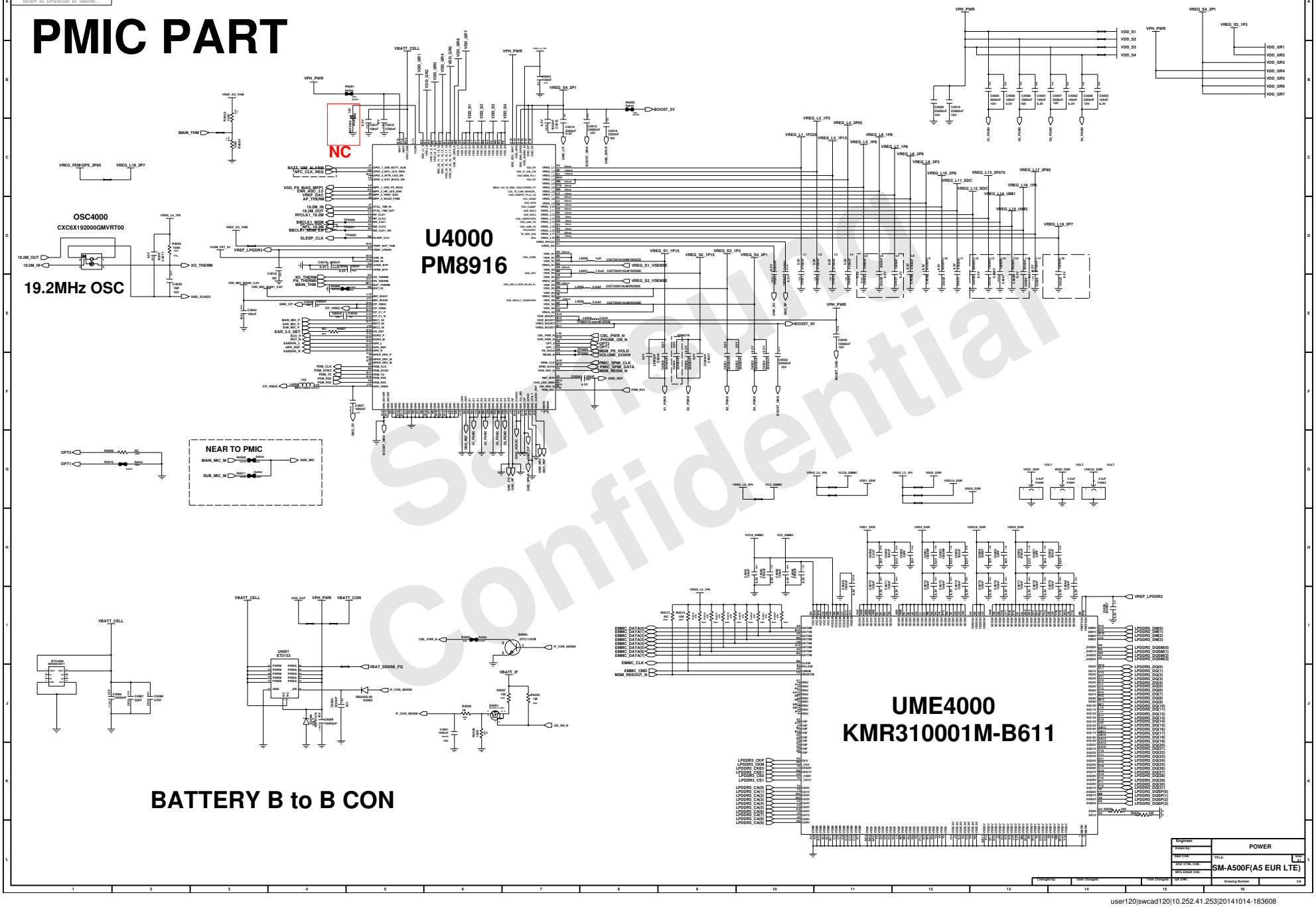
PMIC PART



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Engineer	POWER
Issued By:	
R&D CHK:	TITLE:
DOC CTRL CHK:	SM-A500F(A5 EUR LTE)
MFG ENGR CHK:	
QA CHK:	Drawing Number

Changed By:	Date Changed:	Time Changed:

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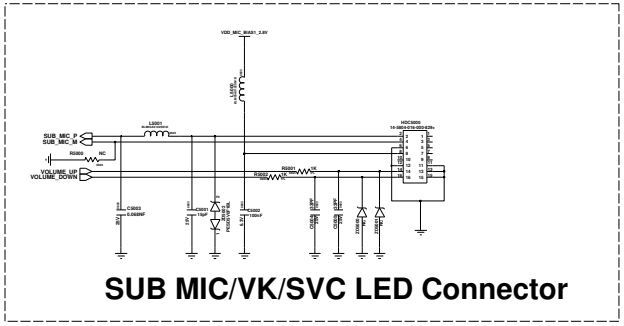
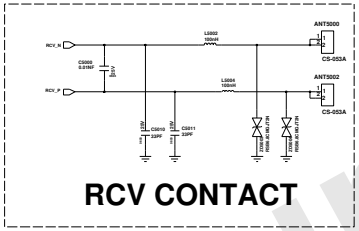
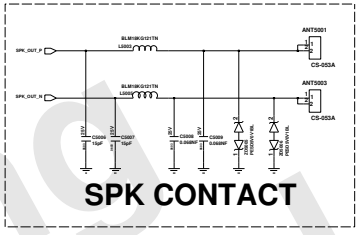
AUDIO PART



SUB MIC/VK/SVC LED Connector

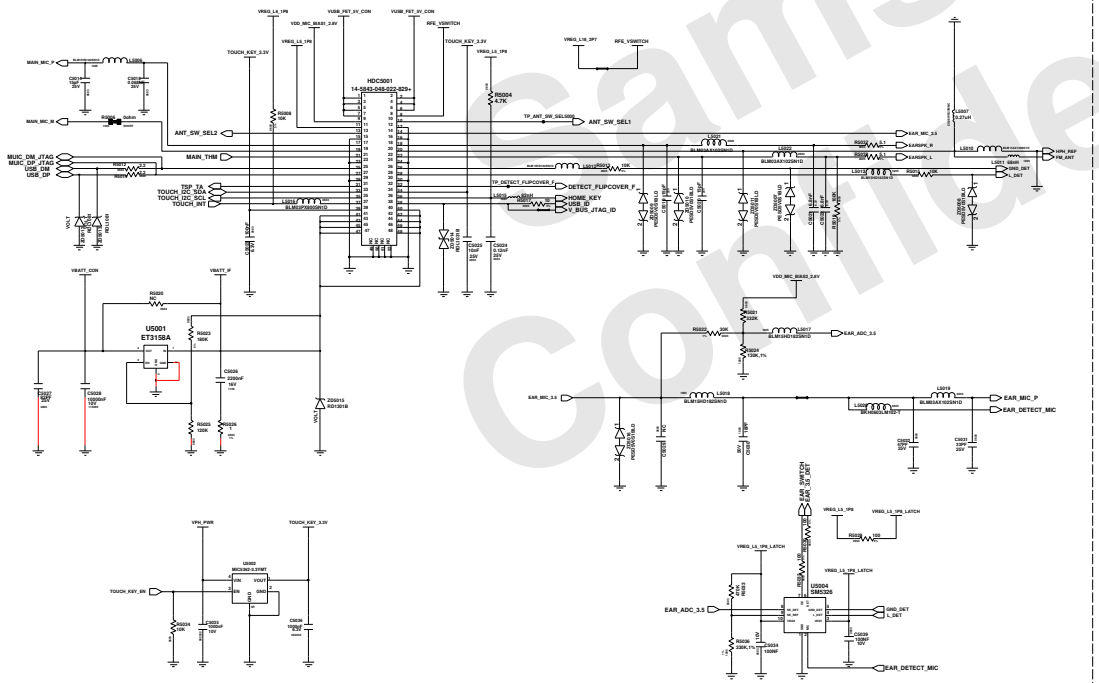


RCV CONTACT



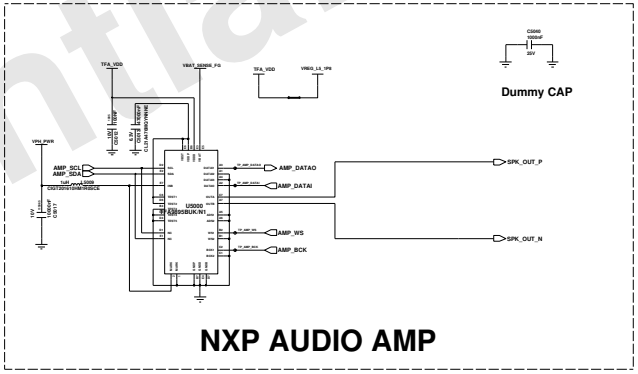
SPK CONTACT

IF SUB PBA CONNECTOR

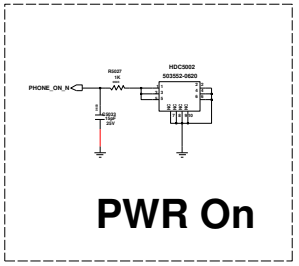


TOUCH KEY LDO

E/J DET IC



NXP AUDIO AMP



PWR On

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Engineer	AUDIO / MOTOR / KEY
TITLE:	
SIZE: A3	
SM-A500F(A5 EUR LTE)	

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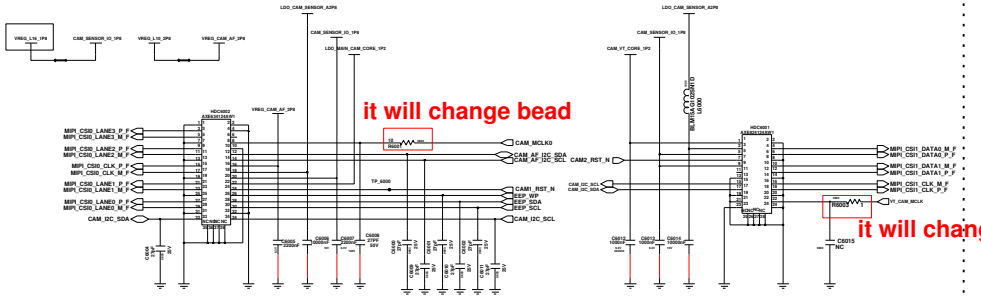
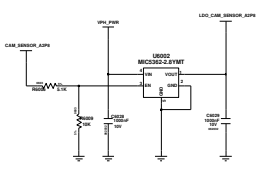
CAMERA PART

13M_CAM Connector (MIPI)

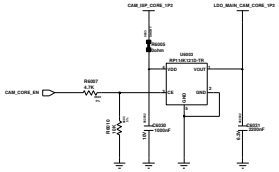


5M_VT_CAM

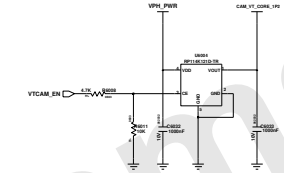
MAIN_CAM_A_LDO



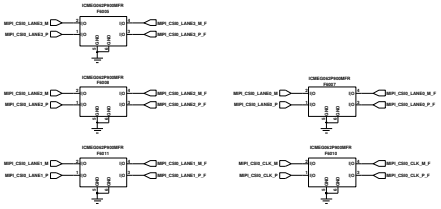
MAIN_CAM_CORE_LDO



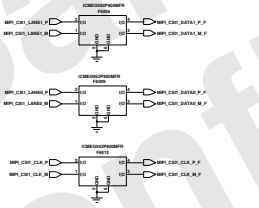
VT CAM LDO



MAIN_CAM_EMI_FILTER

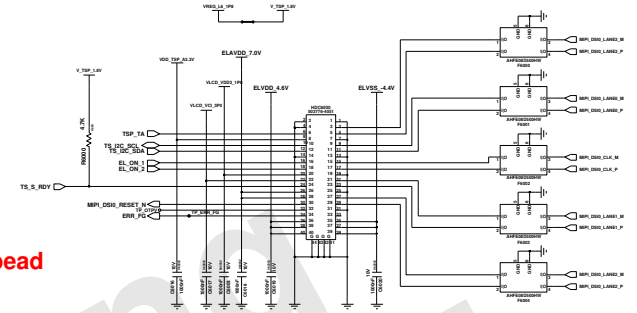


VT_CAM_EMI_FILTER

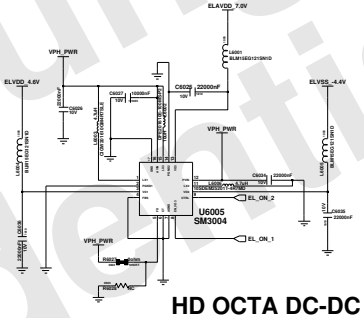


DISPLAY PART

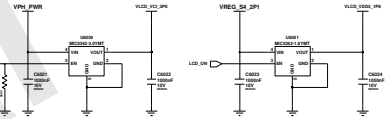
OCTA CONN



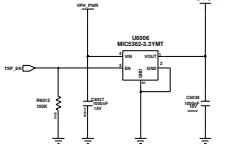
HD OCTA DC-DC



OCTA LDO

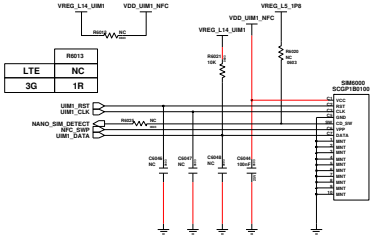


TSP LDO

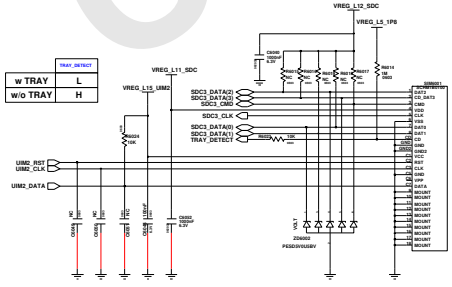


SIM / SD CARD PART

TRAY NANO SIM1 SOCKET

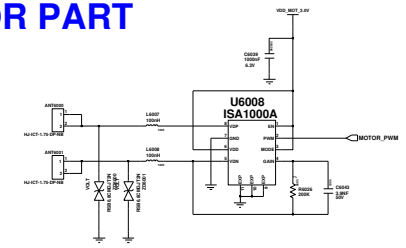


TRAY HYBRID(SIM2/SD) SOCKET

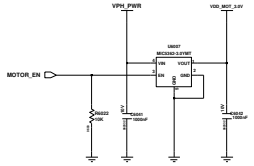


MOTOR PART

Haptic Driver



MOTOR LDO(150mA)



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Engineer:	CAMERA / LCD / SIM,SD CON
ENGR SV:	
R&D CHK:	TITLE:
DOC CTRL CHK:	SM-A500F(A5 EUR LTE)
MFG ENGR CHK:	
QA CHK:	

Changed By	Date Changed	Time Changed	Drawing Number

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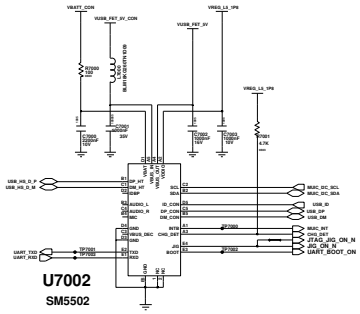
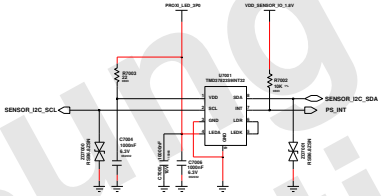
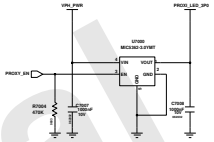


U7002
SM5502

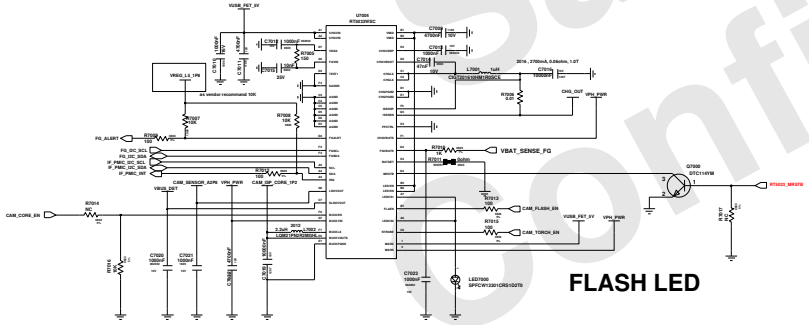
MUIC



Proximity Detector

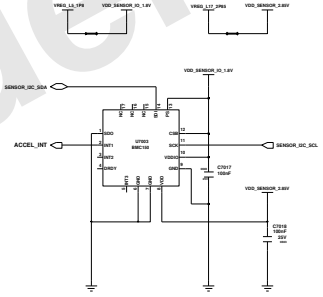


Proximity LDO



FLASH LED

IF PMIC (RT5033 @ Richtek)
(Charger / Fuel Gauge / Flash LED / CAM DCDC)



ACC+MAG SENSOR

Samsung Confidential

Engineer	AUDIO / MOTOR / KEY
TITLE:	SM-A500F(A5 EUR LTE)
Drawing Number	6/8