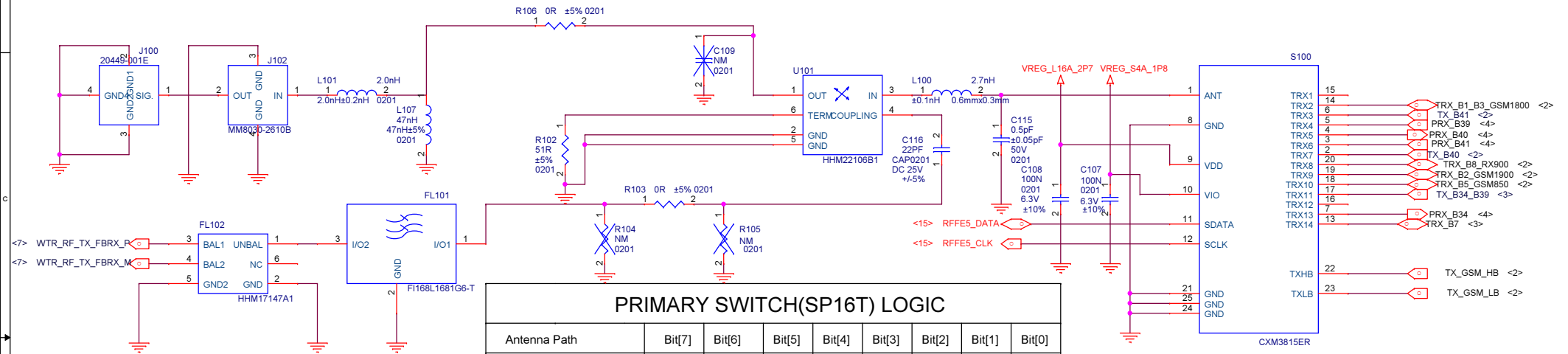


# 全系列小米电路图QQ909799940



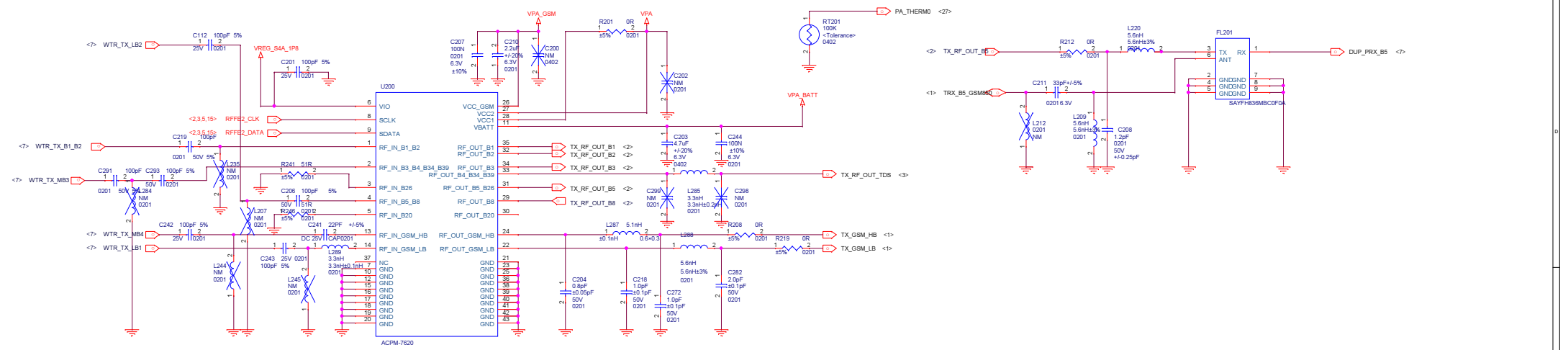
## PRIMARY SWITCH(SP16T) LOGIC

Antenna Path	Bit[7]	Bit[6]	Bit[5]	Bit[4]	Bit[3]	Bit[2]	Bit[1]	Bit[0]
Sleep mode (standby)	X	0	0	0	0	0	0	0
2G transmit low band	X	0	0	0	1	0	1	0
2G transmit high band	X	0	0	0	1	0	0	0
TRX1	X	0	0	0	0	1	0	0
TRX2	X	0	0	0	0	1	0	1
TRX3	X	0	0	0	0	1	1	0
TRX4	X	0	0	0	0	1	1	1
TRX5	X	0	0	0	1	0	0	1
TRX6	X	0	0	0	1	0	1	1
TRX7	X	0	0	0	1	1	0	0
TRX8	X	0	0	0	0	0	0	1
TRX9	X	0	0	0	0	0	1	0
TRX10	X	0	0	0	0	0	1	1
TRX11	X	0	0	0	1	1	0	1
TRX12	X	0	0	0	1	1	1	0
TRX13	X	0	0	1	0	0	0	0
TRX14	X	0	0	1	0	0	0	1
Isolation mode (warm-up)	X	1	1	1	1	1	1	1

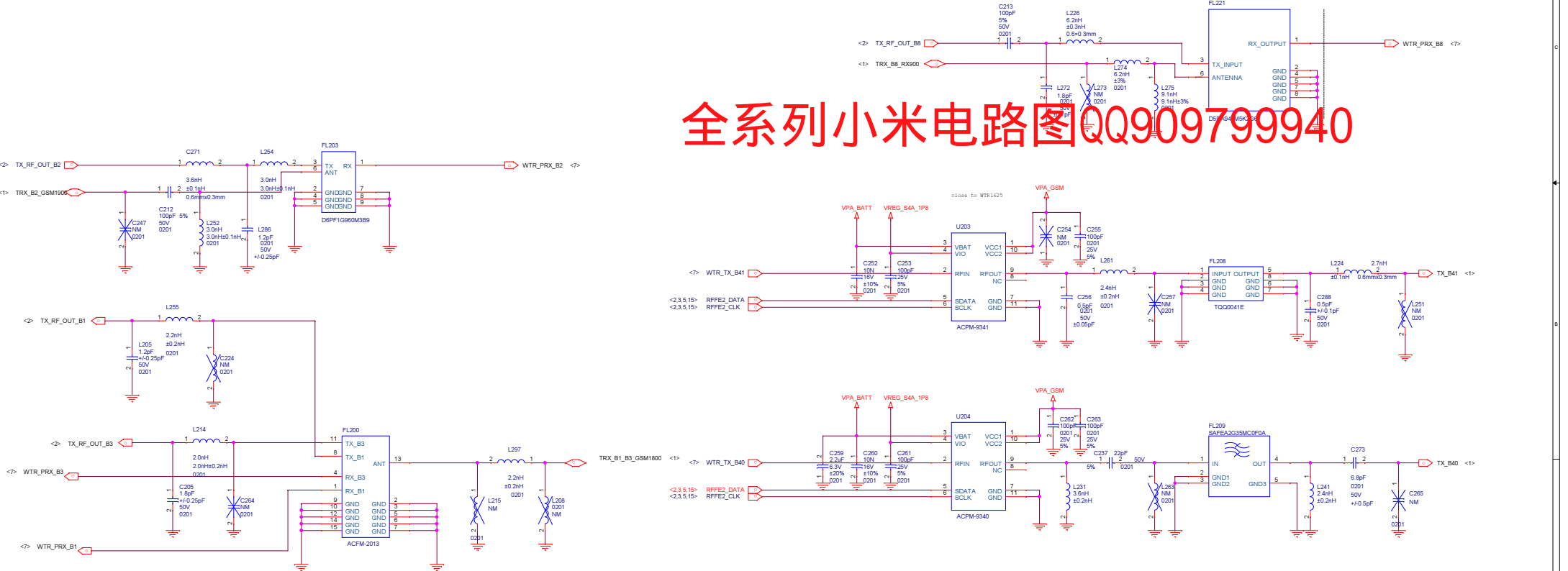
CXM3593		
CTL 1	CTL 2	Active path
L	H	RF1-RF4 RF2-RF3
H	L	RF1-RF3 RF2-RF4

Primary Ant Connector, Coupler and Primary Switchplexer

Title		
A10		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 1 of 41



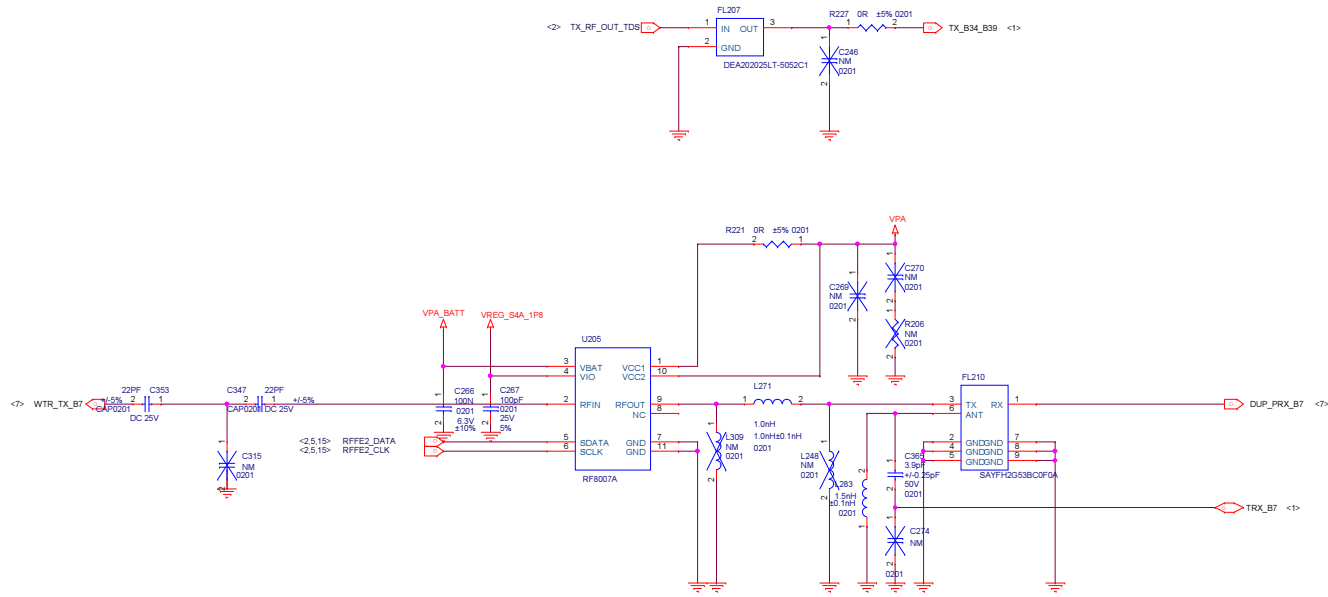
# 全系列小米电路图QQ909799940



## RF7301 LOGIC

POWER MODE	PA_ON3_B34_B39	TDS_PA0_R0	TDS_PA0_R1
POWER DOWN MODE	L	L	L
STANDBY MODE	L	X	X
HIGH POWER STATE	H	L	L
MEDIUM POWER STATE	H	H	L
LOW POWER STATE	H	H	H

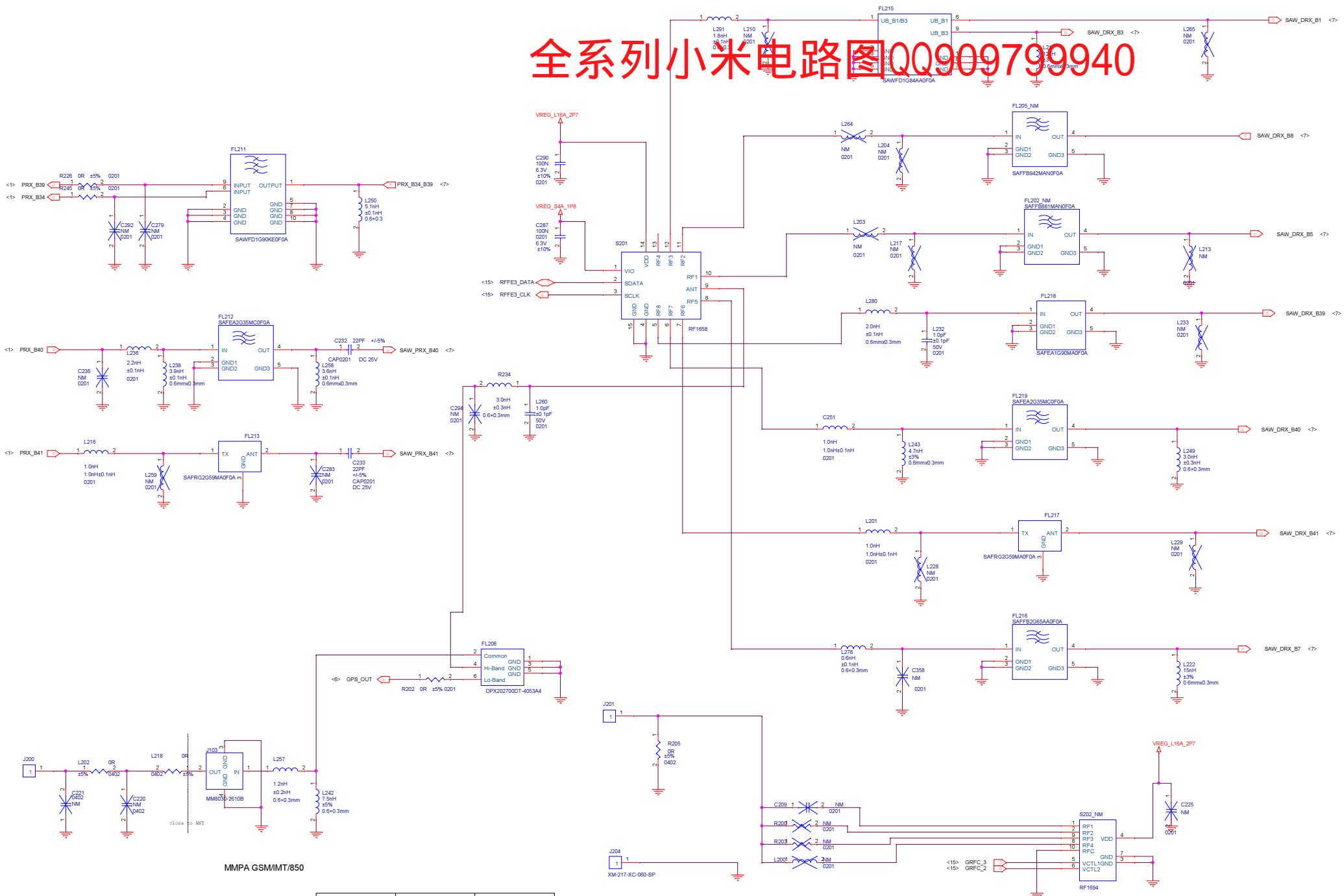
# 全系列小米电路图QQ909799940



POWER MODE	PA_ON3_B34_B39	TDS_PA0_R0	TDS_PA0_R1
POWER DOWN MODE	L	L	L
STANDBY MODE	L	X	X
HIGH POWER STATE	H	L	L
MEDIUM POWER STATE	H	H	L
LOW POWER STATE		H	H

Title		A10
Size	Document Number	<Doc>
A2		Rev
		PD
Date	Thursday, December 10, 2015	Sheet 3 of 41

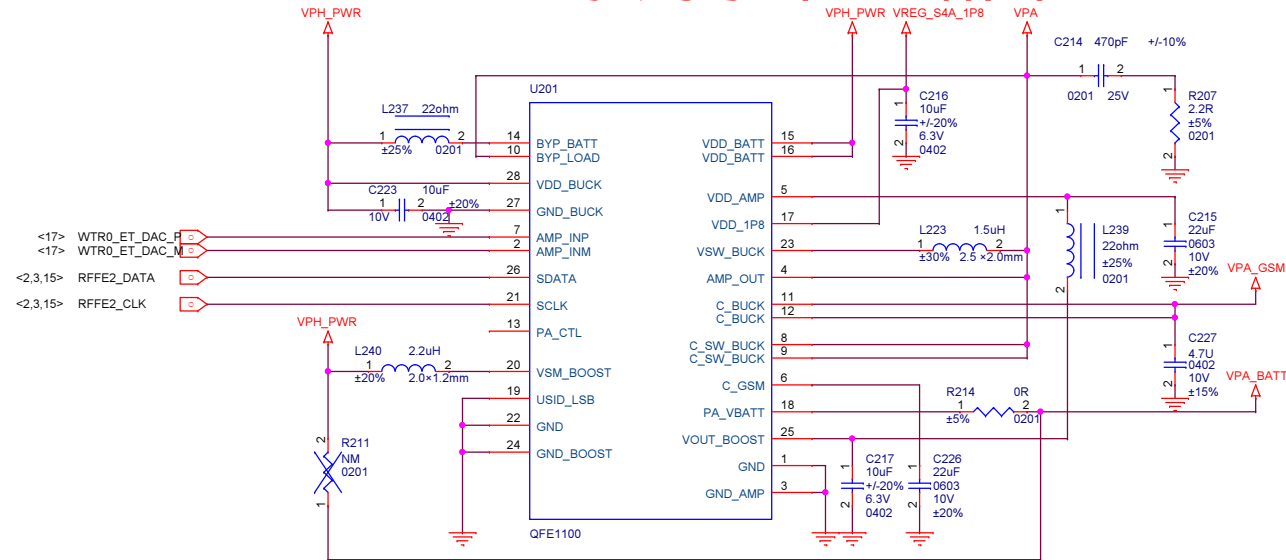
# 全系列小米电路图QQ009799940



MMPA GSM/IMT/850

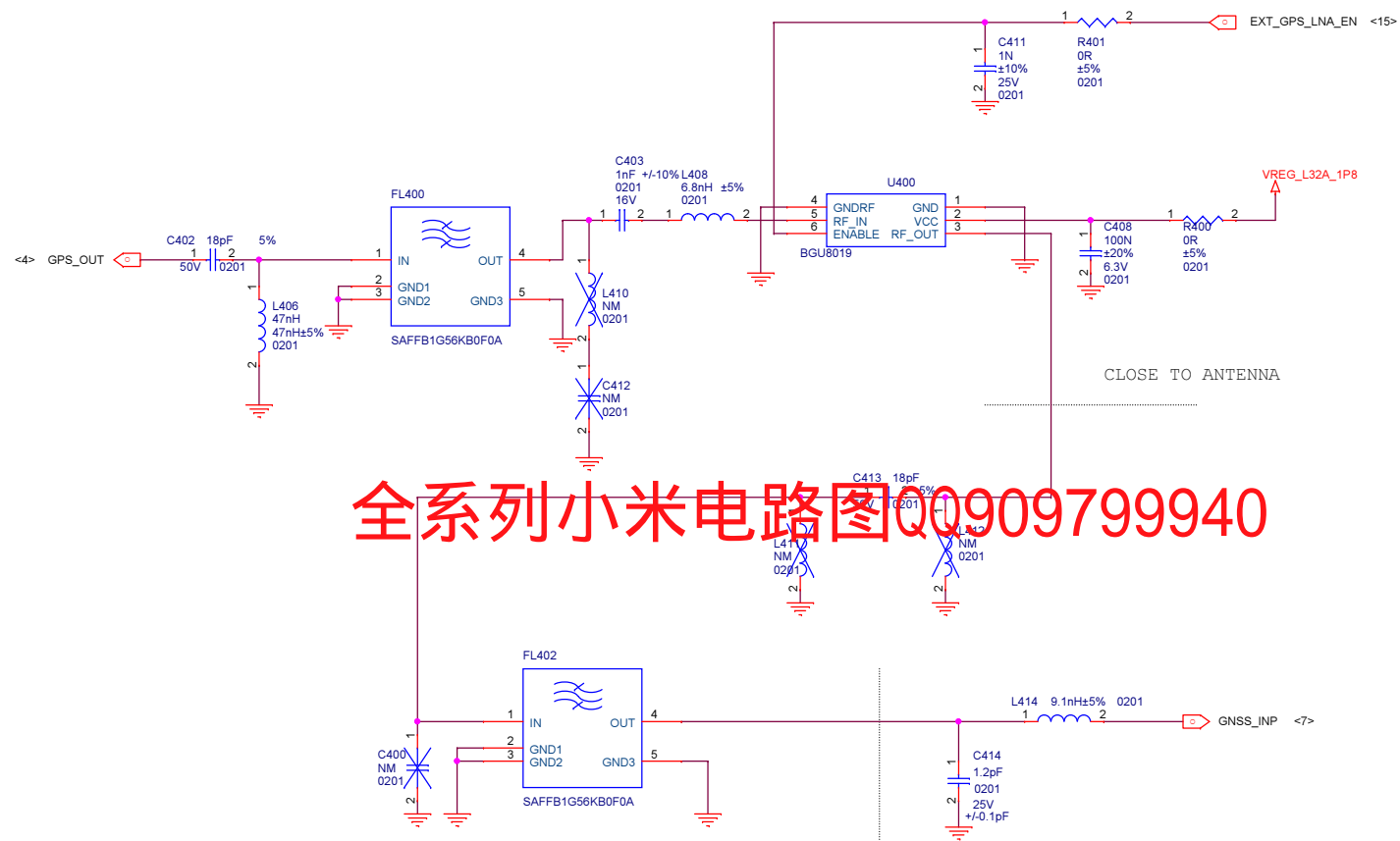
PRx and Drx	SP4T_CTRL_1	SP4T_CTRL_2
B2	H	L
B34	L	L
B1	L	H
B3	H	H

# 全系列小米电路图QQ909799940



QFE1100

Title		
A10		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 5 of 41

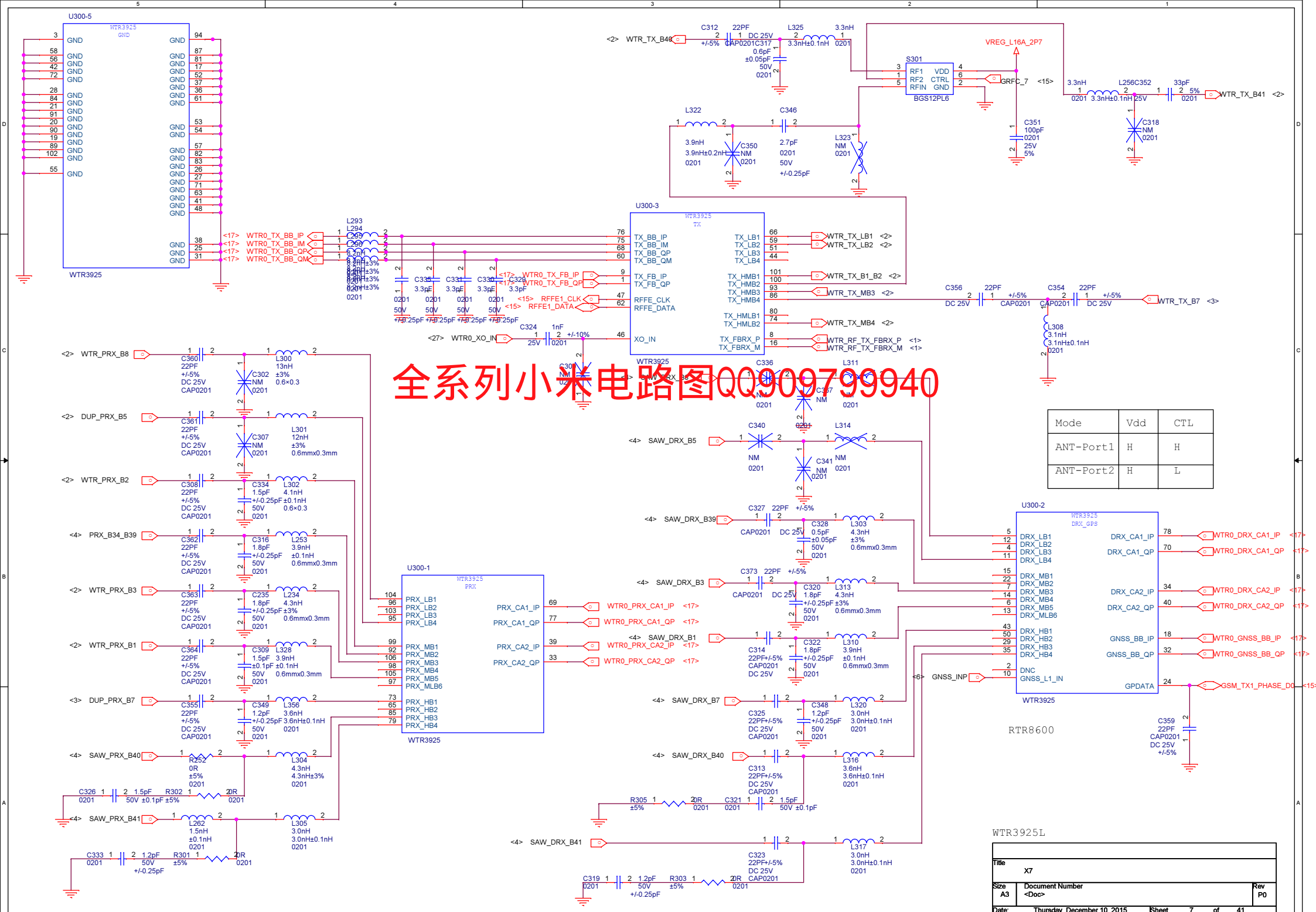


# 全系列小米电路图Q0909799940

GPS

Title		
X7		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 6 of 41

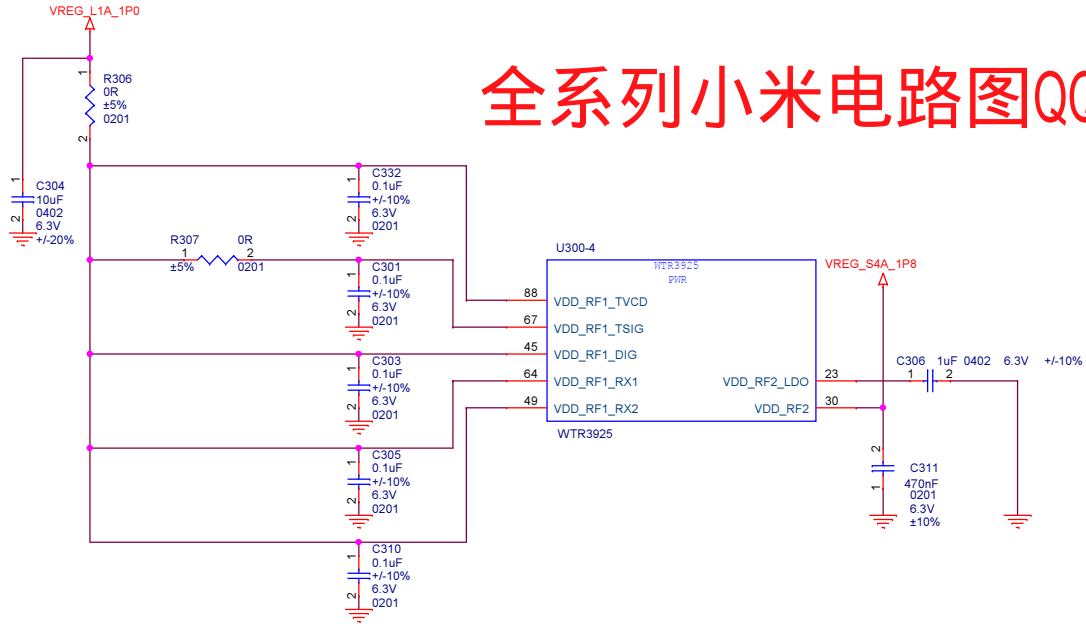
# 全系列小米电路图QQ909799940



Mode	Vdd	CTL
ANT-Port1	H	H
ANT-Port2	H	L

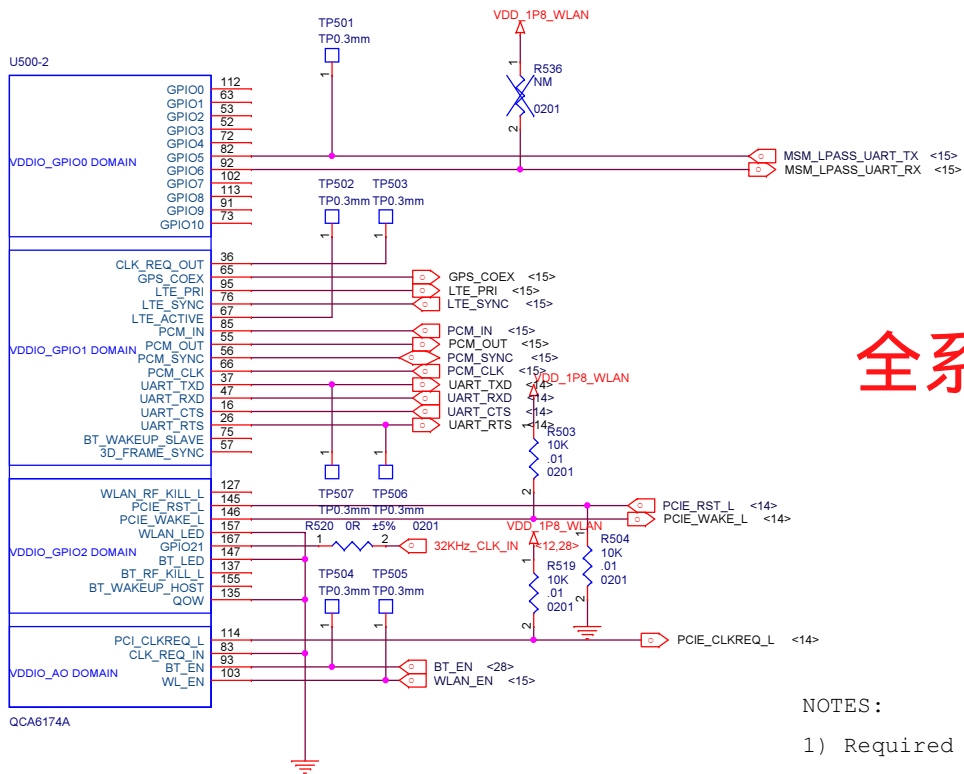
Title		X7
Size	Document Number	<Doc>
A3		Rev P0
Date:	Thursday, December 10, 2015	Sheet 7 of 41

# 全系列小米电路图QQ909799940



RTR8600 BYPASS

Title		
X7		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 8 of 41



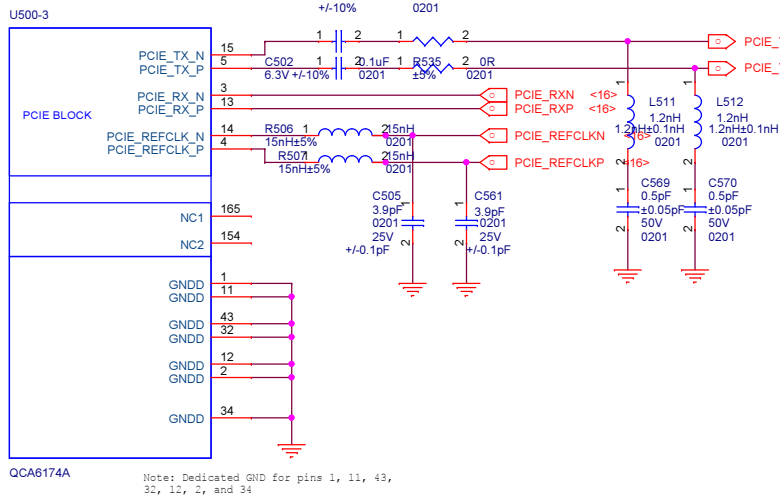
# 全系列小米电路图QQ909799940

### NOTES:

1) Required pull-up and pull-down resistors at host for open drain signals

PIN#	NET NAME	TYPE	NOTES
146	PCIE_WAKE_L	OD	Ext. pull-up to VDDIO_GPIO2 at host side
114	PCIE_CLKREQ_L	OD	Ext. pull-up to VDDIO_AO at host side
145	PCIE_RST_L	OD	Ext. pull-down to GND at host side
147	WLAN_LED	OD	Ext. pull-up to VDDIO_GPIO2 at host side; otherwise short to GND
147	BT_LED	OD	If used, ext. pull-up to VDDIO_GPIO2 at host side; otherwise short to GND
135	QOW	OD	If used, Ext. pull-up to VDDIO_GPIO2 at host side; otherwise short to GND

- For PCIE\_REFCLKN/P, place the series resistors and shunt capacitors close to QCA61x4A-1
- For PCIE\_TXN/P, place C501 and C502 close to QCA6164A

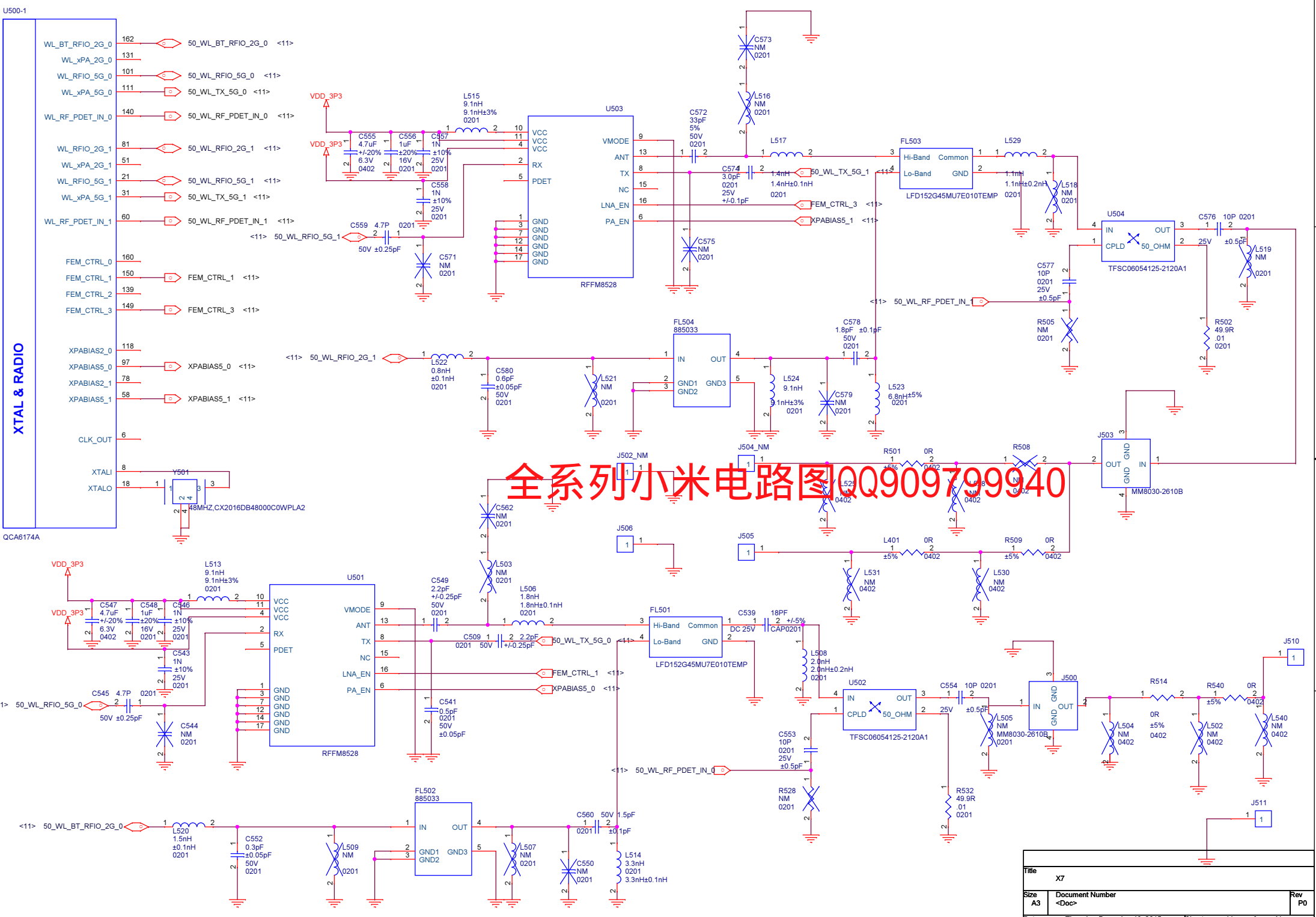


Note: Dedicated GND for pins 1, 11, 43, 32, 12, 2, and 34

BI/WIFI

Title		
X7		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 9 of 41

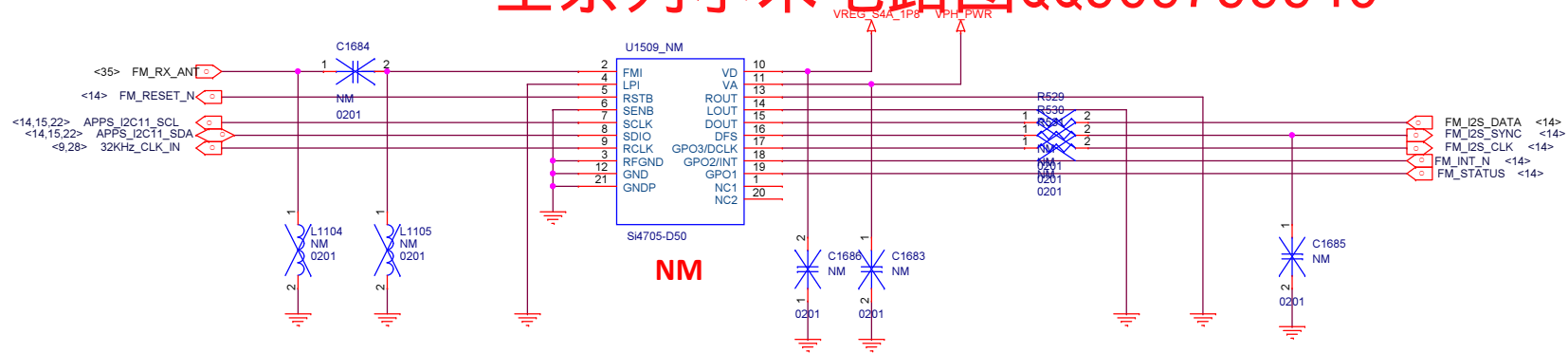




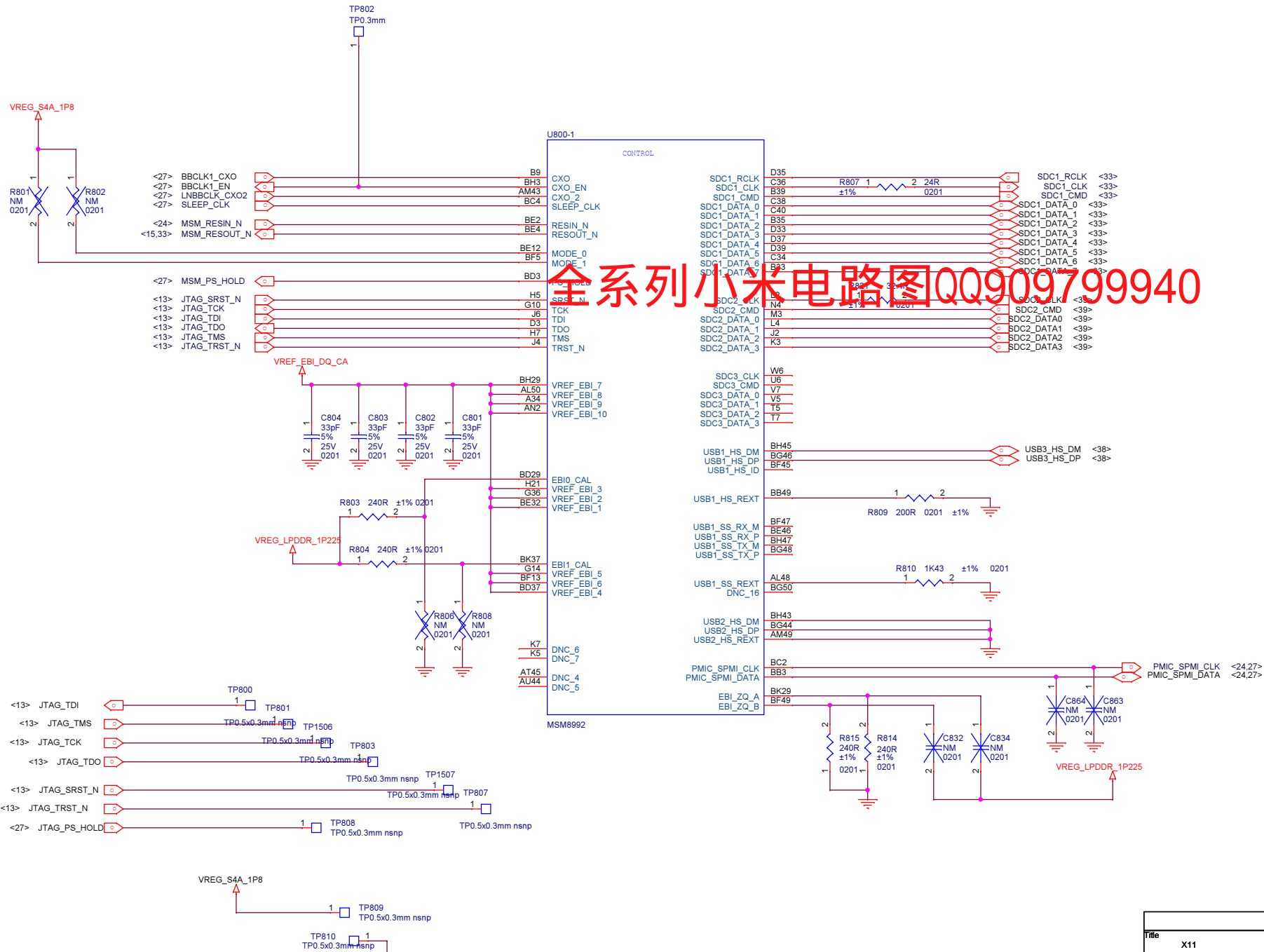
全系列小米电路图QQ909799940

Title		X7
Size	Document Number	<Doc>
A3	<Doc>	Rev
		P0
Date:	Thursday, December 10, 2015	Sheet 11 of 41

# 全系列小米电路图QQ909799940

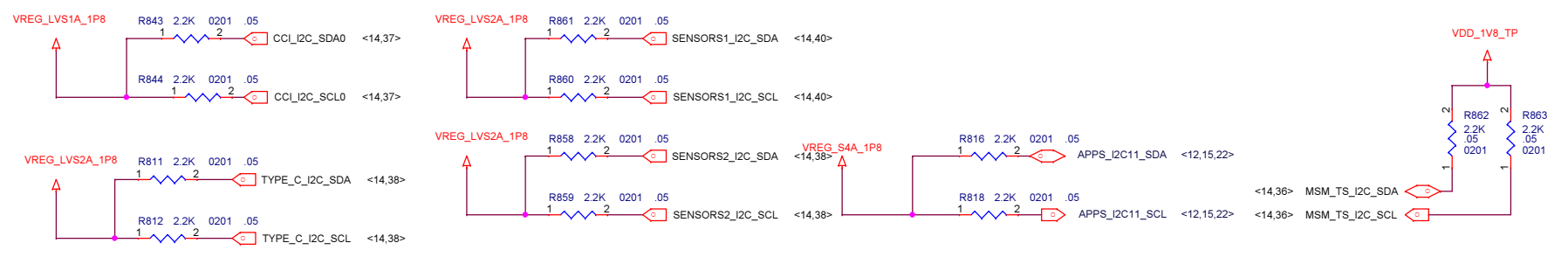
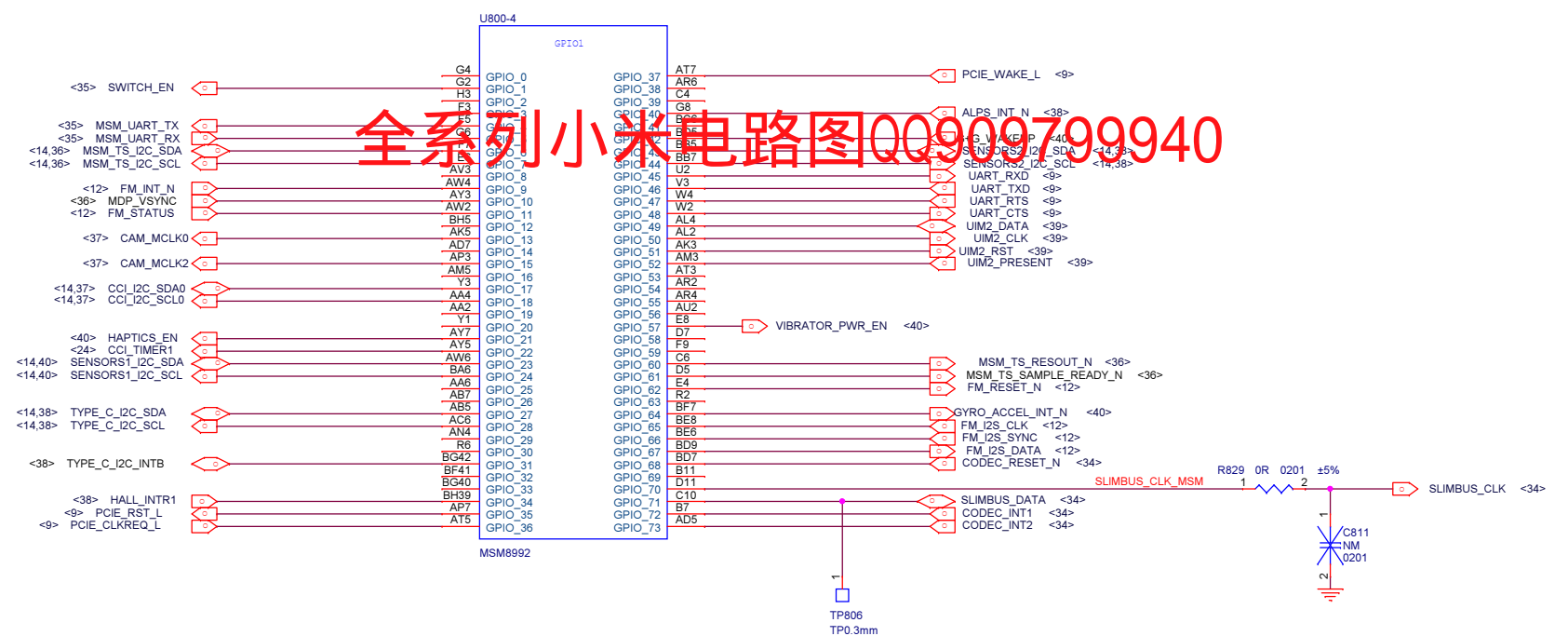


Title		
X11		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 12 of 40



全系列小米电路图QQ909799940

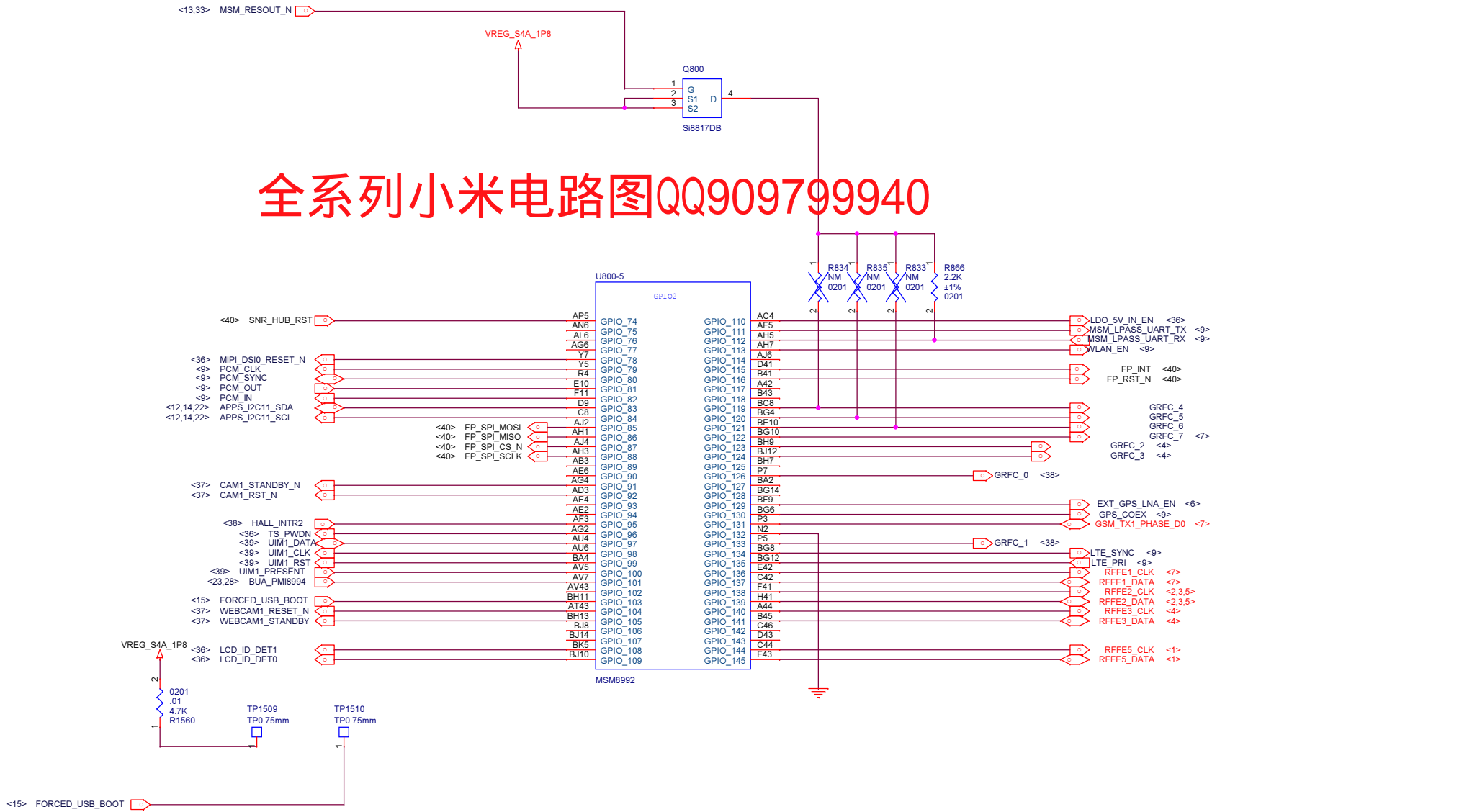
Title			X11
Size	Document Number	Rev P0	
A3	<Doc>		
Date:	Thursday, December 10, 2015	Sheet	13 of 40



# 全系列小米电路图QQ909799940

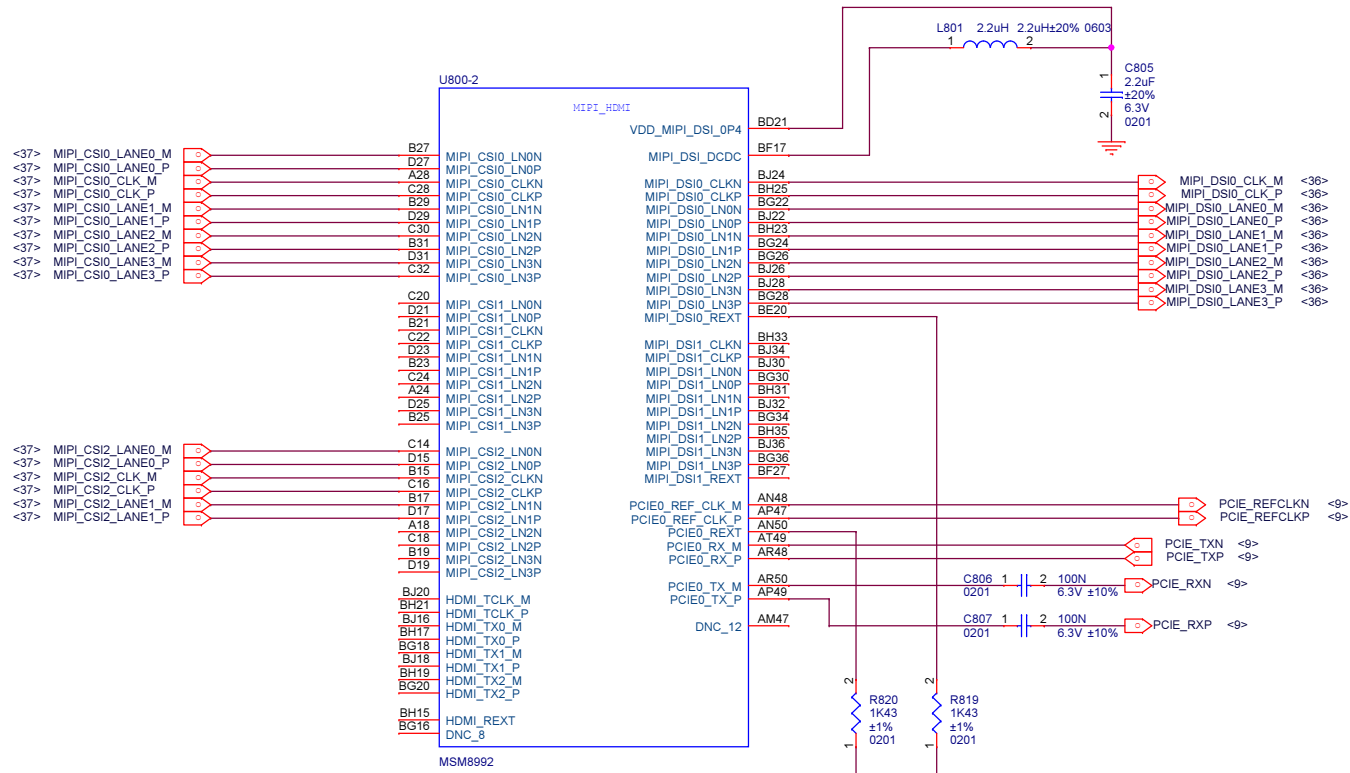
Title		X11	
Size	A3	Document Number	<Doc>
Date:	Thursday, December 10, 2015	Sheet	14 of 40
Rev	P0		

# 全系列小米电路图QQ909799940



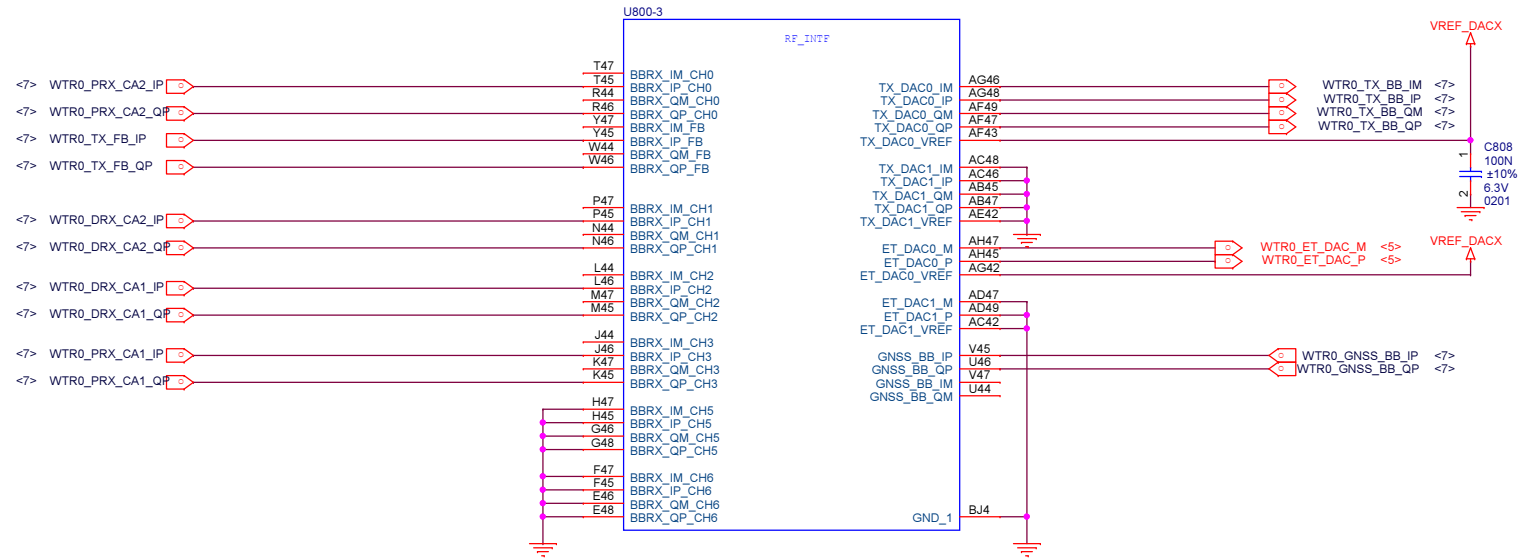
Title		X11	
Size	A3	Document Number	<Doc>
Date:	Thursday, December 10, 2015	Sheet	15 of 40
Rev	P0		

# 全系列小米电路图QQ909799940



Title		X11	
Size	A3	Document Number	<Doc>
Date:	Thursday, December 10, 2015	Sheet	16 of 40
Rev	P0		

# 全系列小米电路图QQ909799940



Title		
X11		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 17 of 40

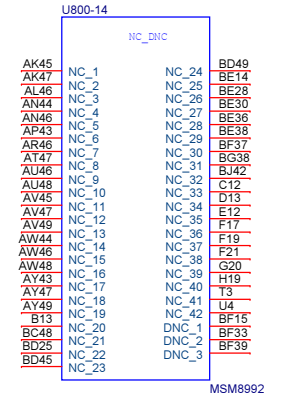
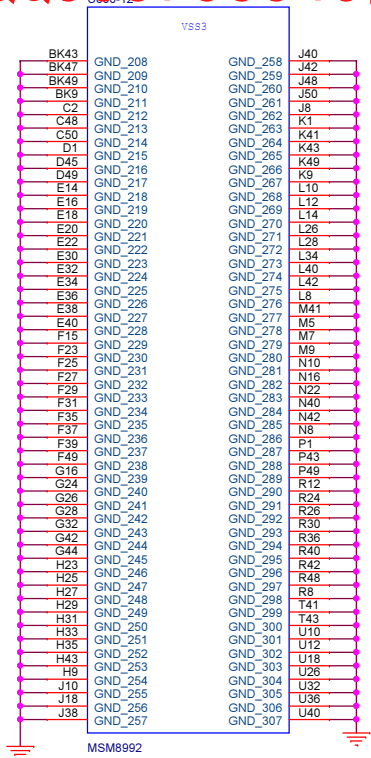
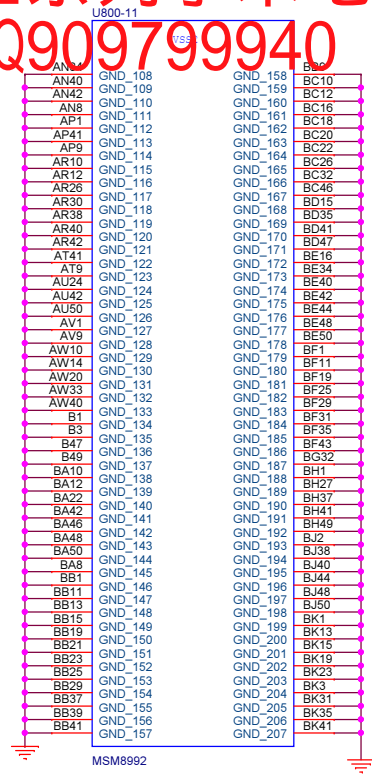
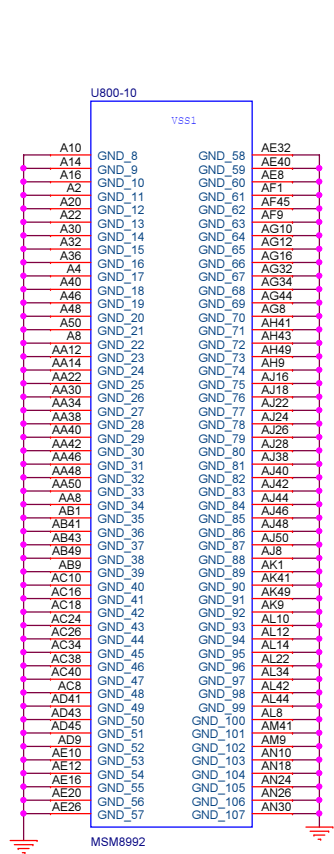


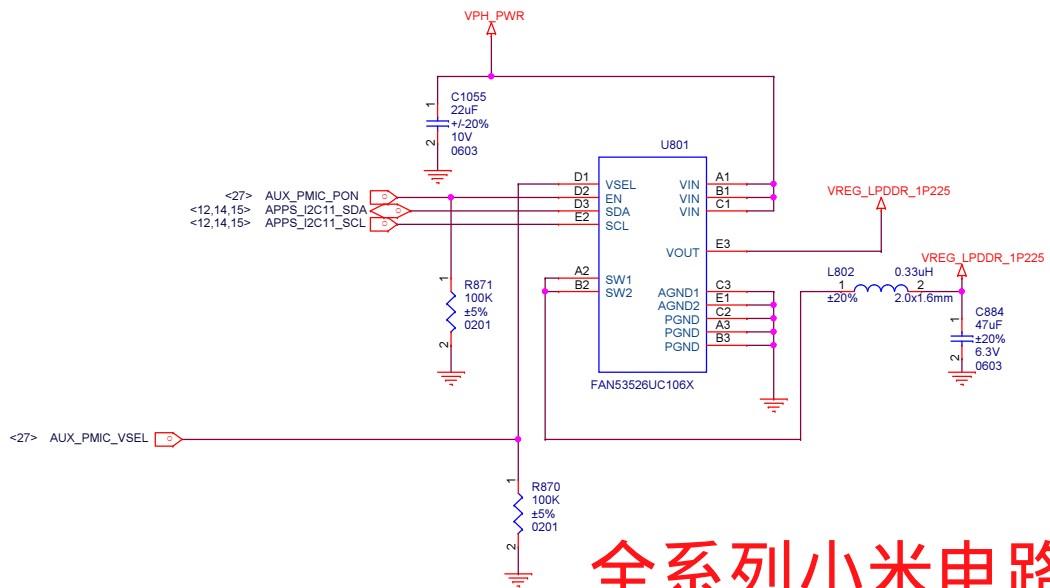




# 全系列小米电路图QQ909799940全系列小米电路图

## QQ909799940



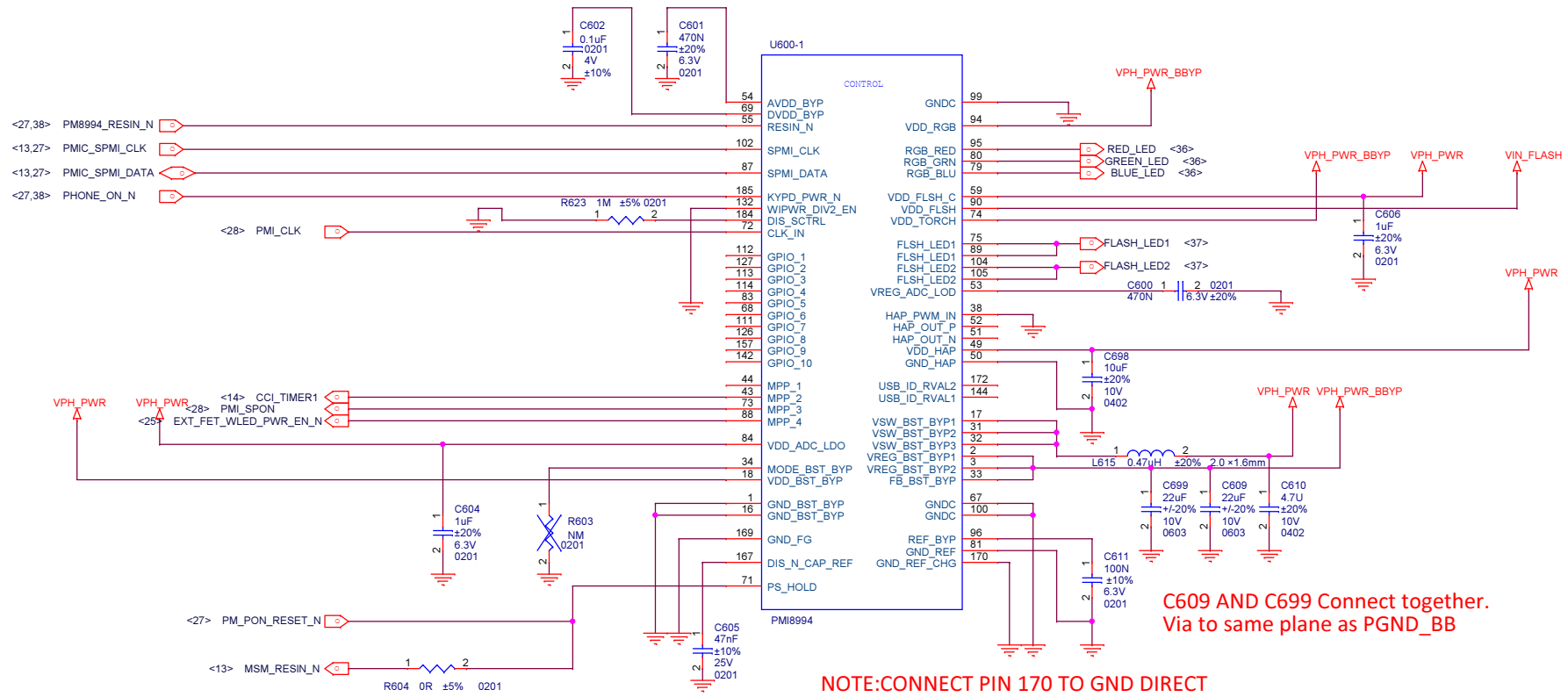


# 全系列小米电路图QQ909799940

Title			X11
Size	Document Number	Rev	
A3	<Doc>	P0	
Date:	Thursday, December 10, 2015	Sheet	22 of 40



# 全系列小米电路图QQ909799940



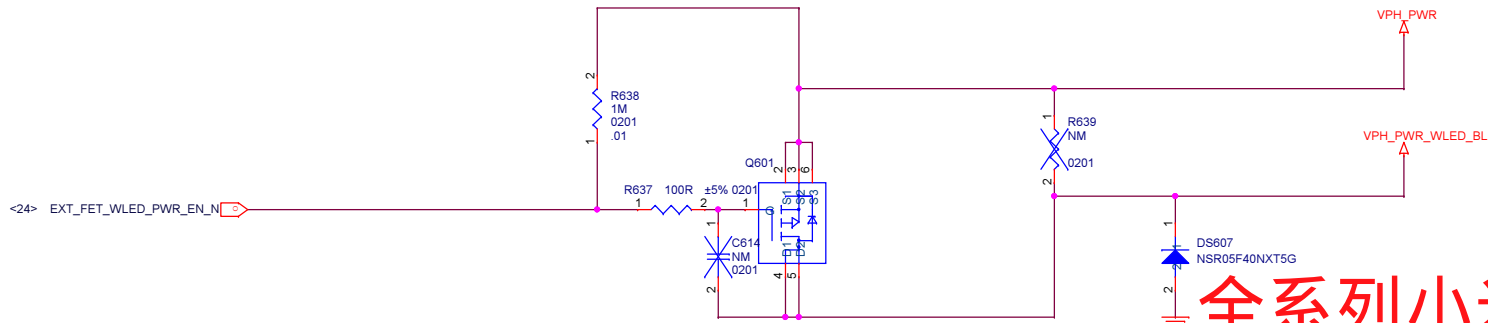
C609 AND C699 Connect together.  
Via to same plane as PGND\_BB

NOTE:CONNECT PIN 170 TO GND DIRECT

NOTE:CONNECT PIN 183 DIRECT

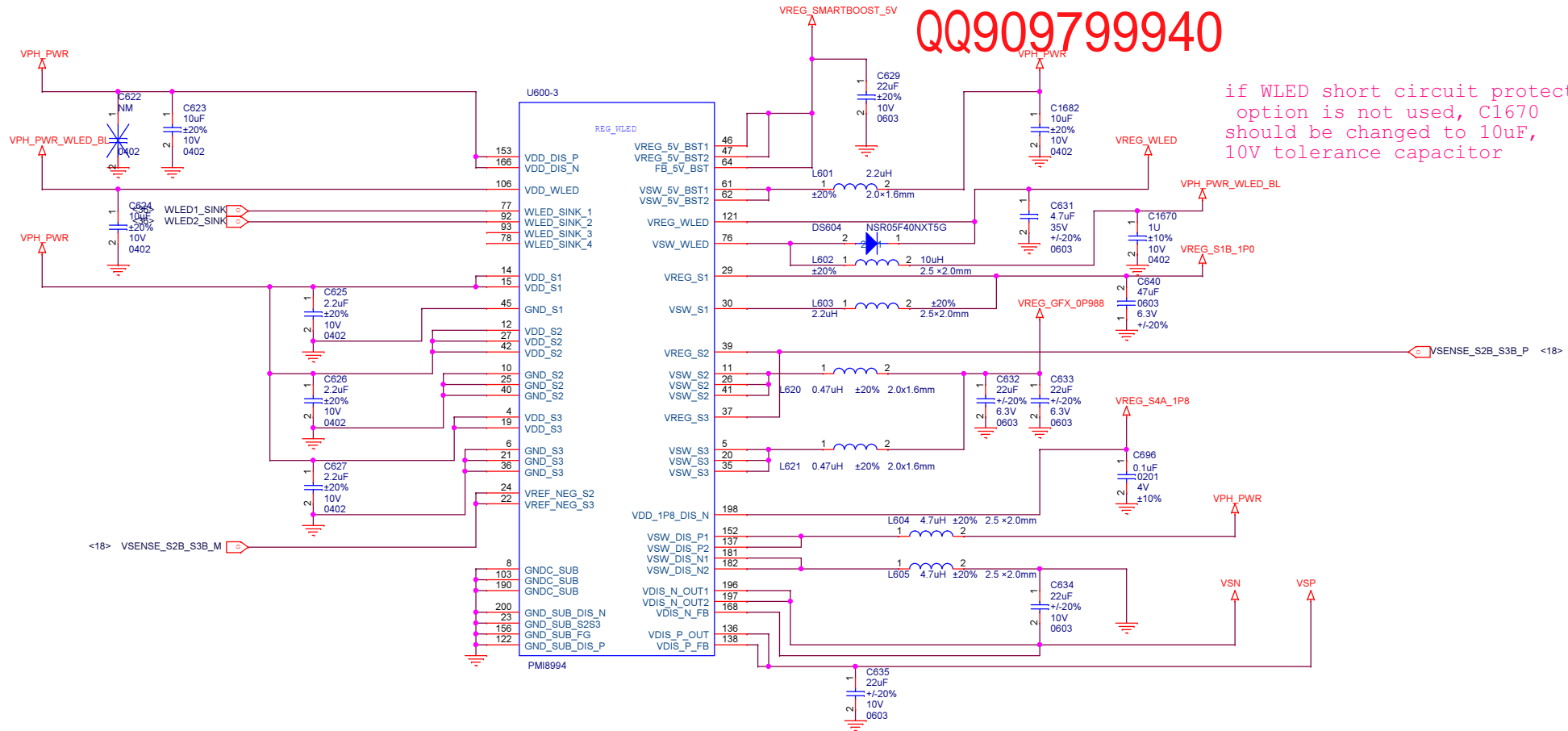
PM8941(1 OF 5) - CHARGING

Title		
X11		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 24 of 40



# 全系列小米电路图 QQ909799940

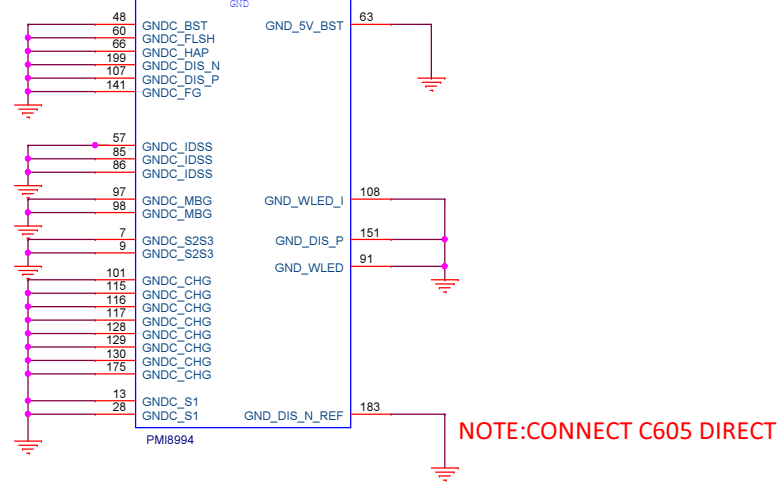
if WLED short circuit protection option is not used, C1670 should be changed to 10uF, 10V tolerance capacitor



PM8941(3 OF 5) - SMPS

Title		X11
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 25 of 40

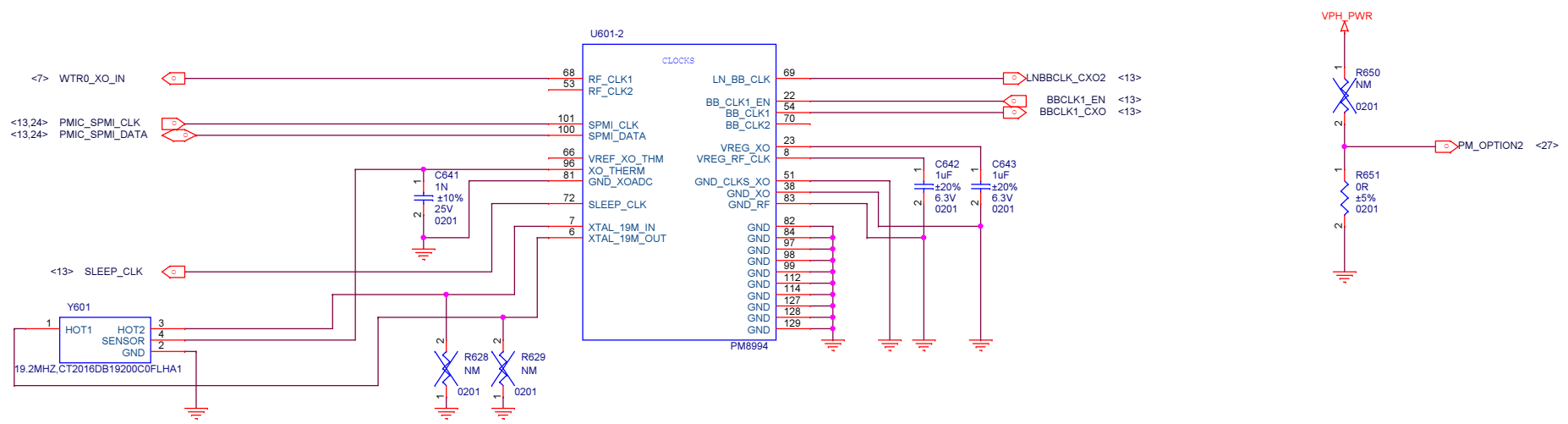
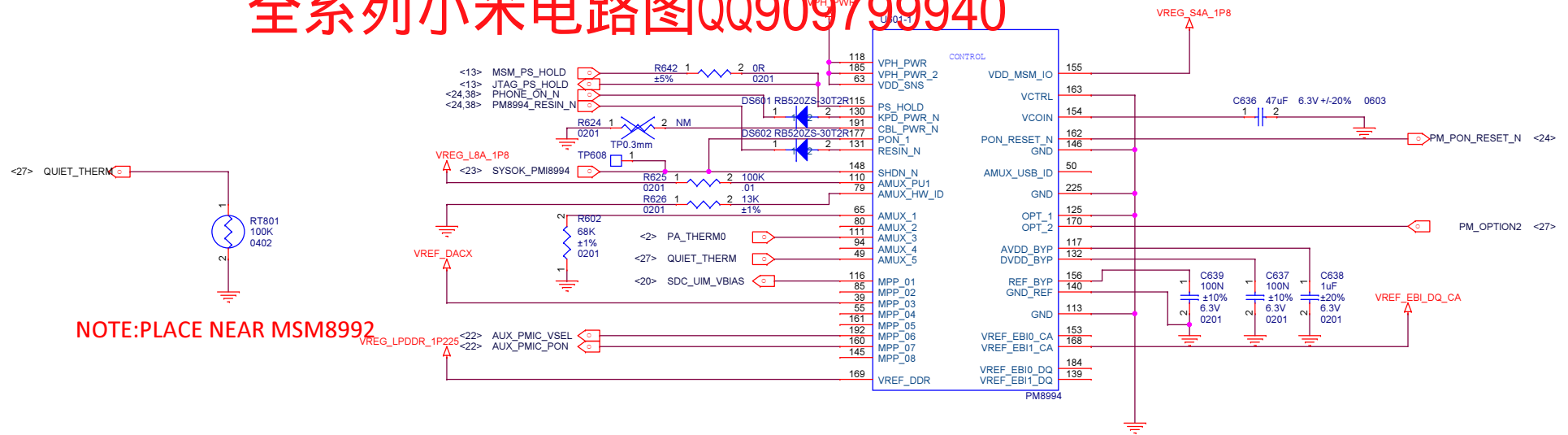
# 全系列小米电路图QQ909799940



PM18941(4 OF 5) - LDO

Title		
X11		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 26 of 40

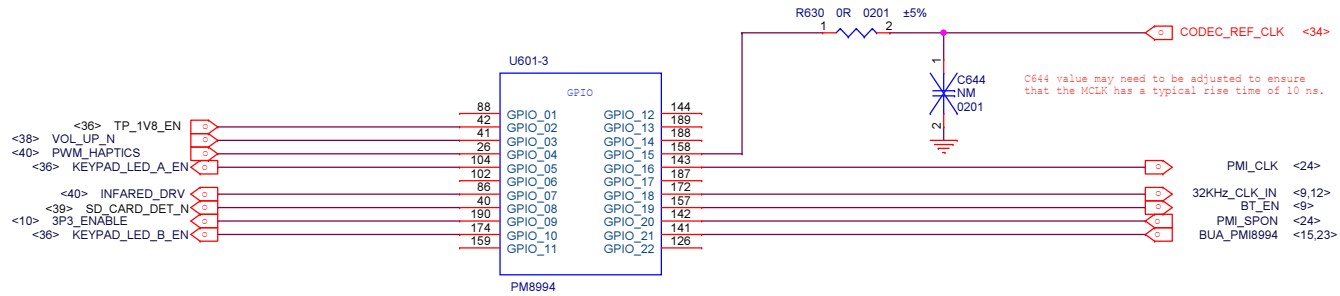
# 全系列小米电路图QQ909799940



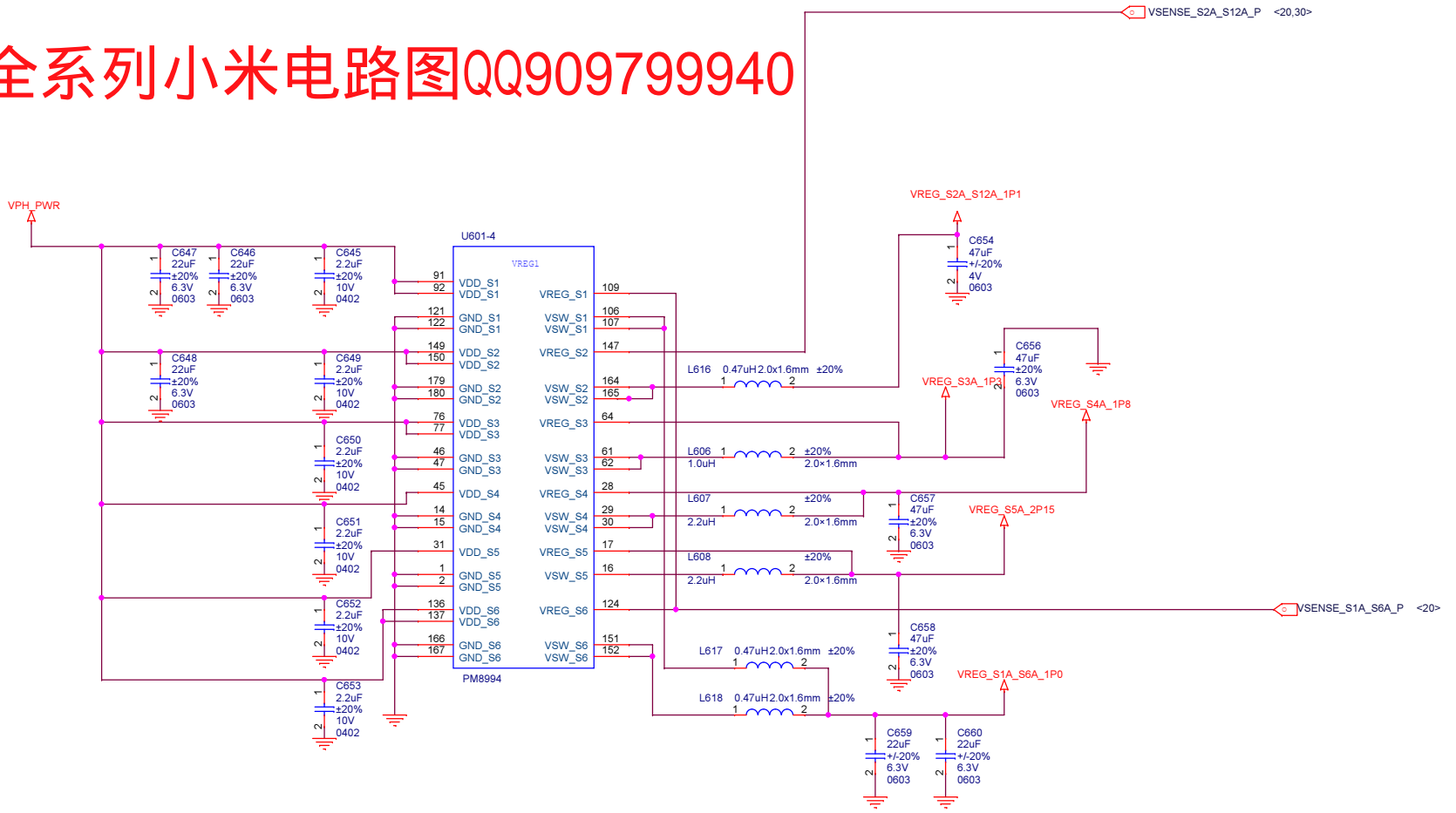
PM8941(5 OF 5) - LED&GND

Title	X11	
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 27 of 40

# 全系列小米电路图QQ909799940

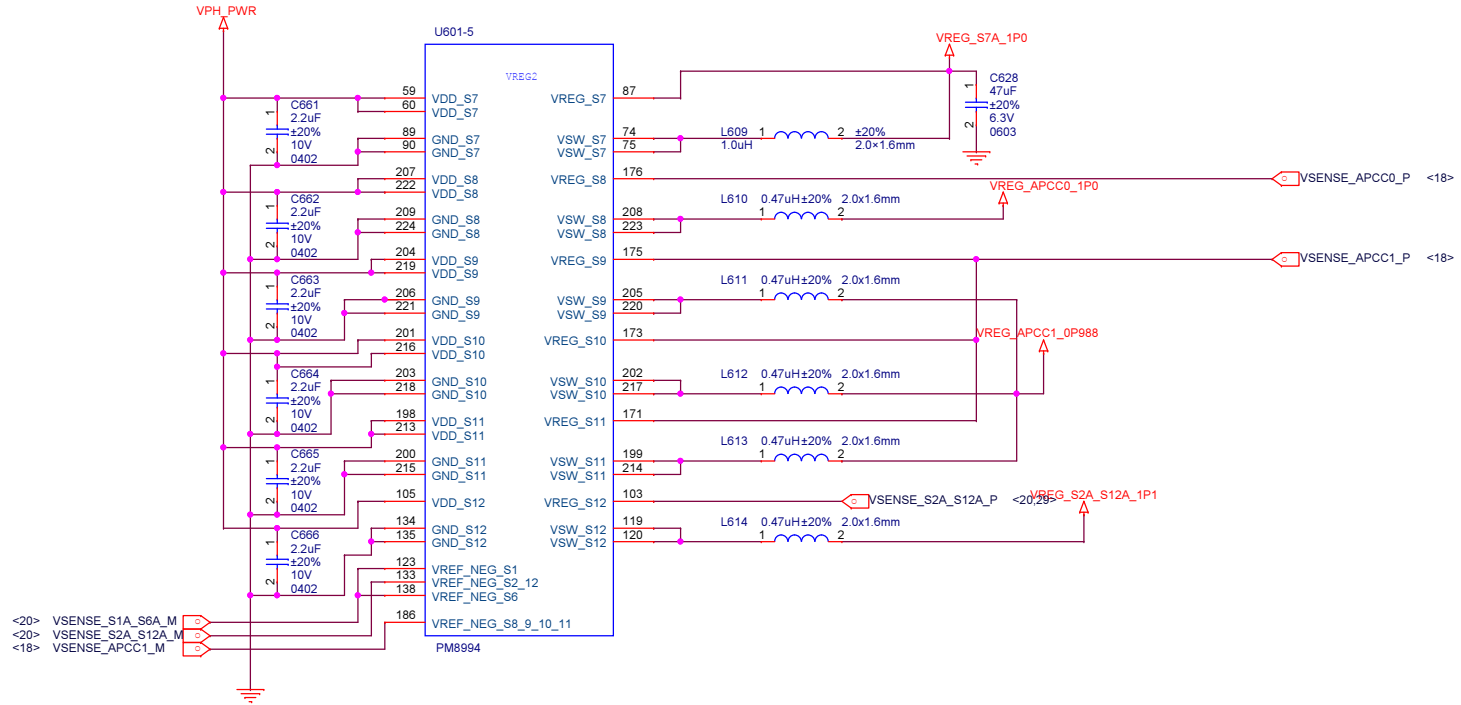


# 全系列小米电路图QQ909799940



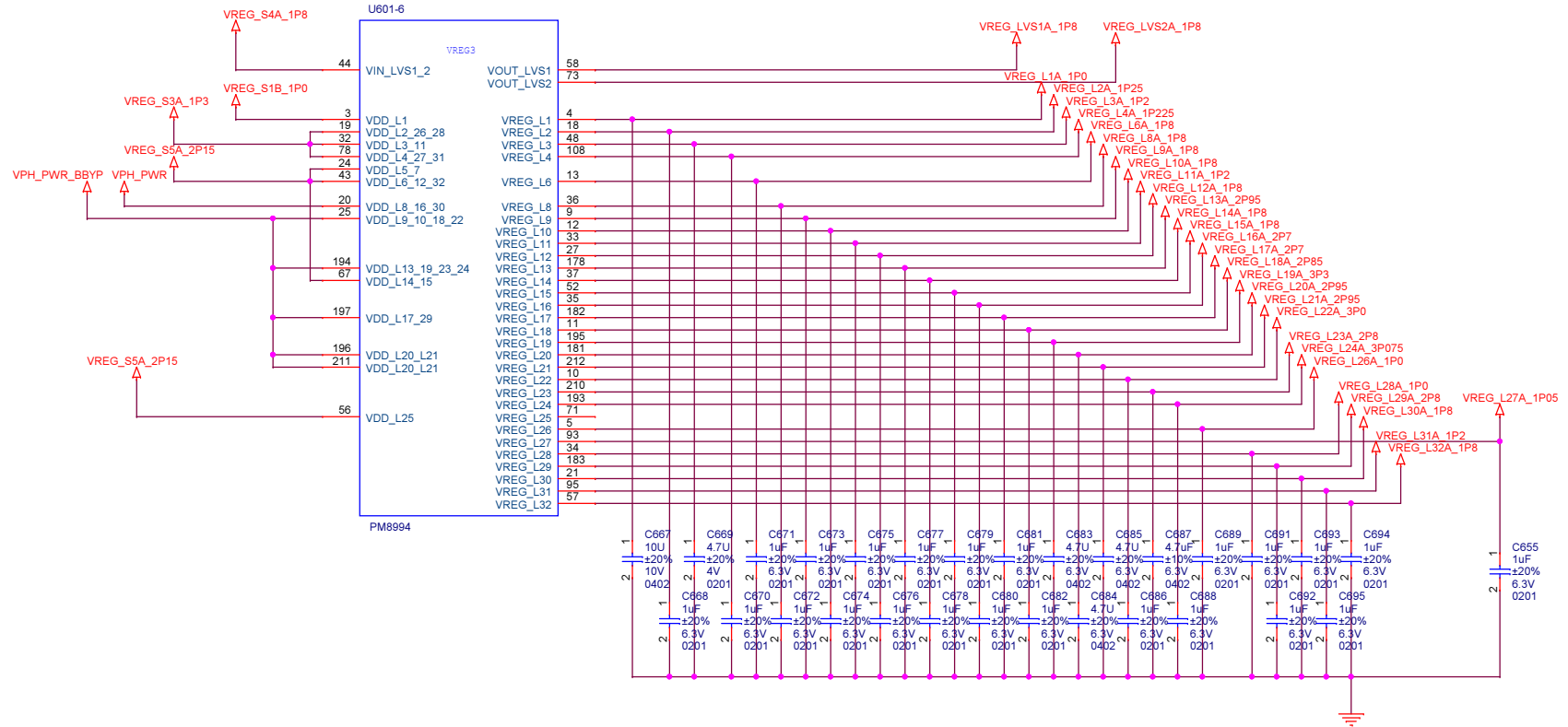
Title		
X11		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 29 of 40

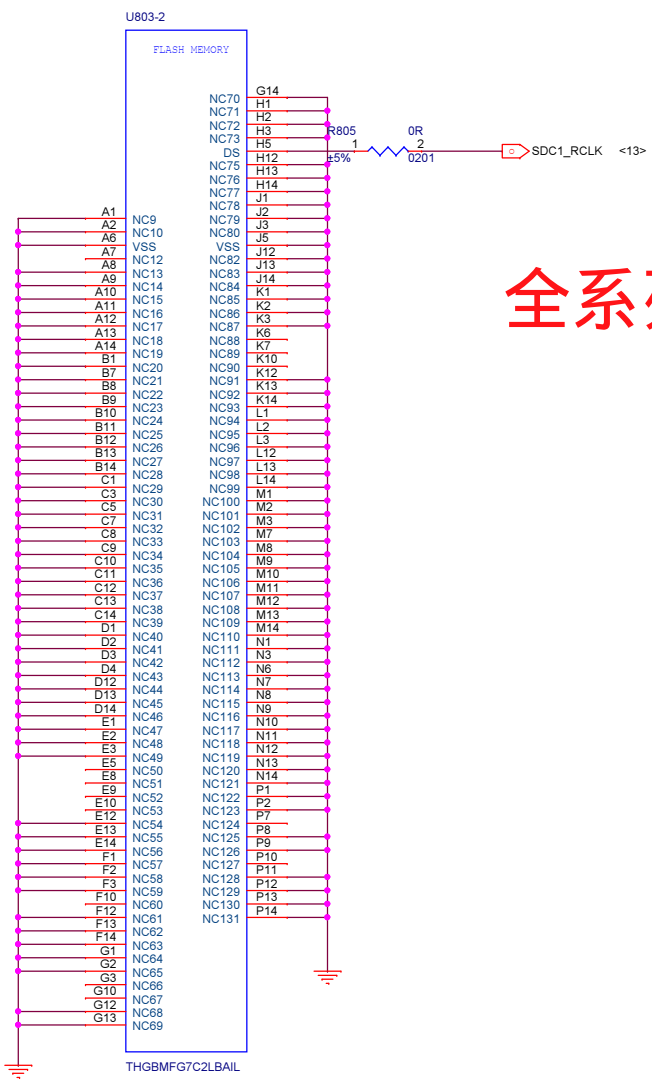
# 全系列小米电路图QQ909799940



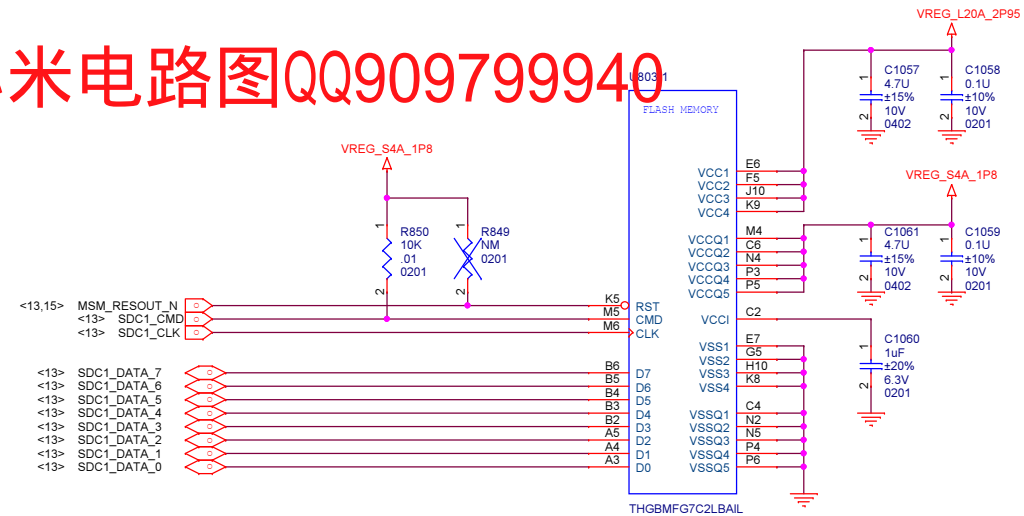
Title		
X11		
Size	Document Number	Rev
A3	<Doc>	P0
Date:	Thursday, December 10, 2015	Sheet 30 of 40

# 全系列小米电路图QQ909799940



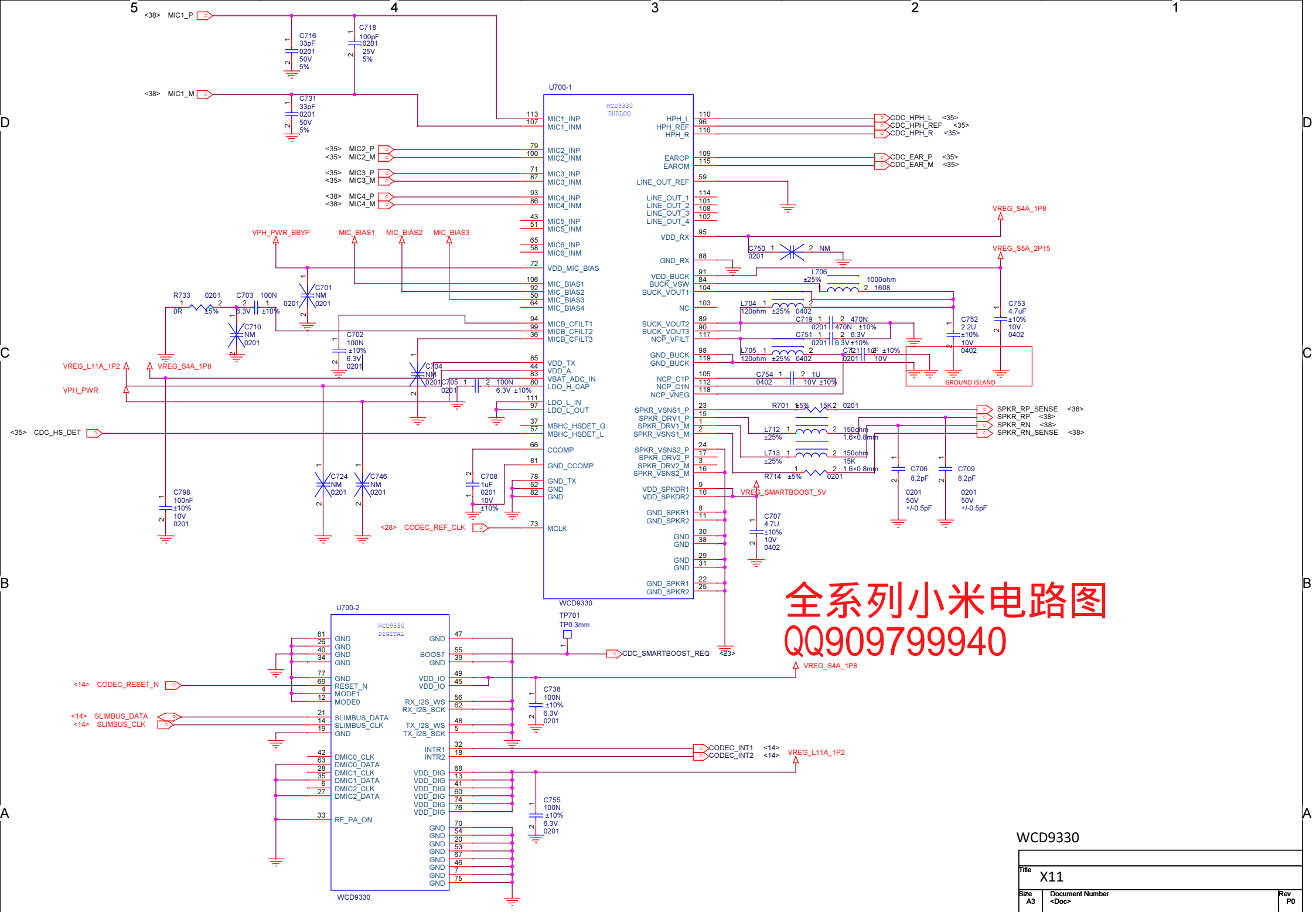


# 全系列小米电路图QQ909799940



## MEMORY

Title			X11		
Size	Document Number		Rev		
A3	<Doc>		P0		
Date:	Thursday, December 10, 2015	Sheet	33	of	40

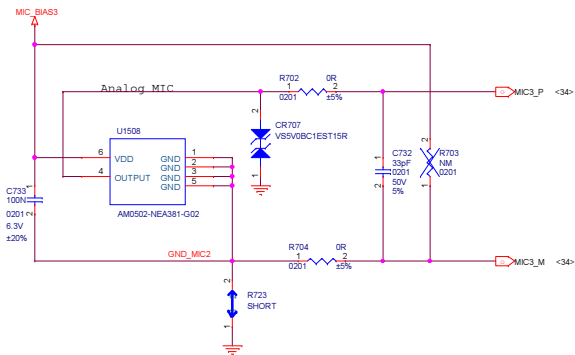
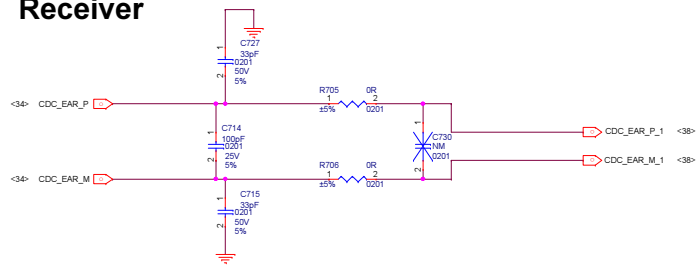


# 全系列小米电路图 QQ909799940

WCD9330

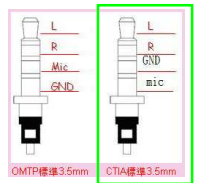
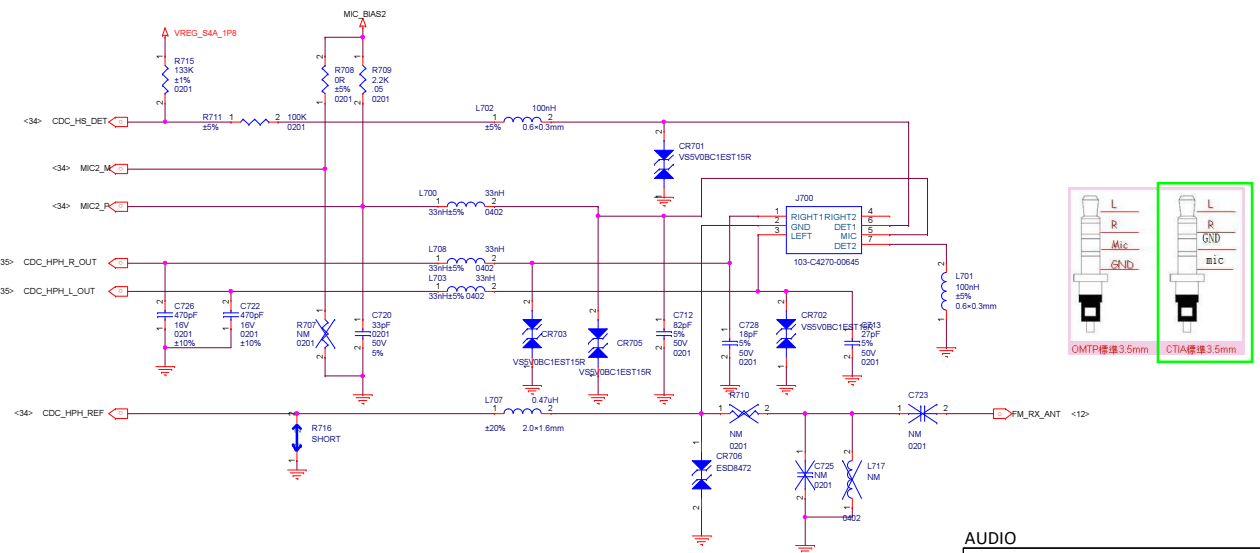
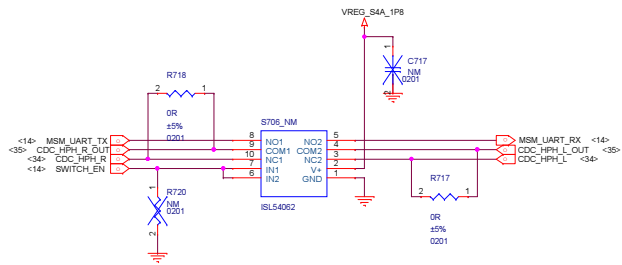
Title			X11		
Size	A3	Document Number	<Doc>		
Date:	Thursday, December 10, 2015		Sheet	34	of 40
Rev	P0				

# Receiver



# 全系列小米电路图QQ909799940

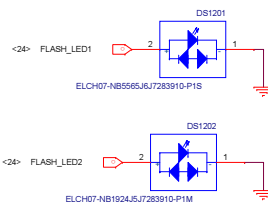
# Earphone Audio



## AUDIO

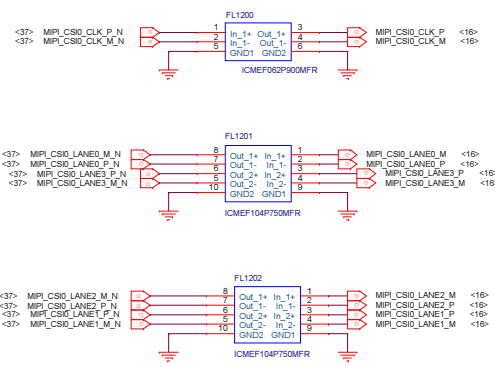
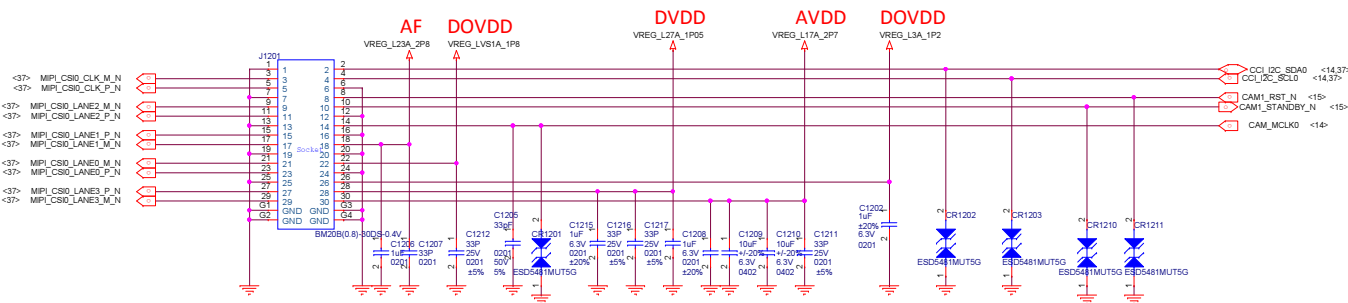
Title			X11		
Size	Document Number	Rev			
A2	<Doc>	P0			
Date	Thursday, December 10, 2015	Sheet	35	of	40



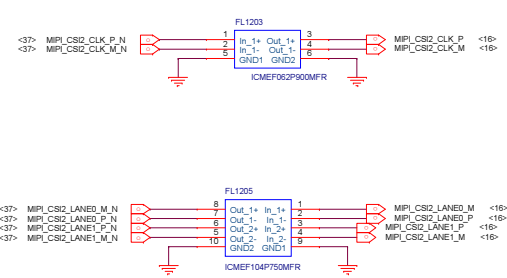
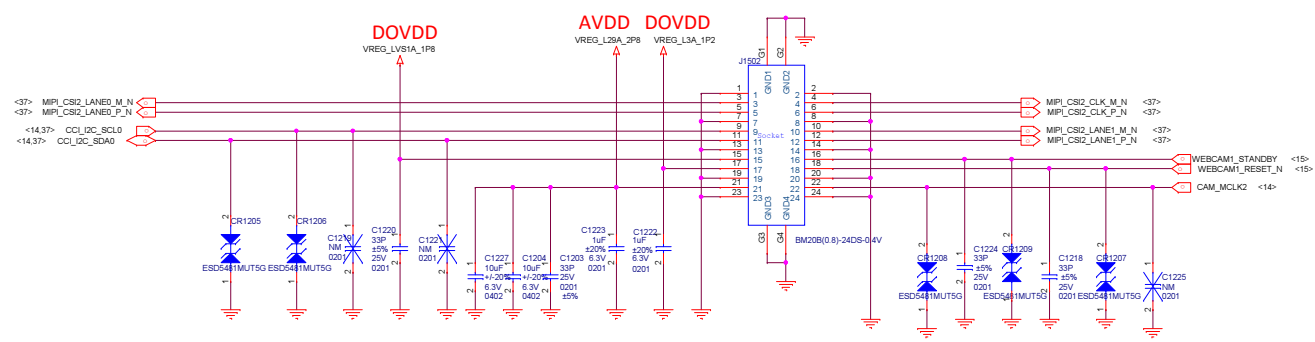


# 全系列小米电路图QQ909799940

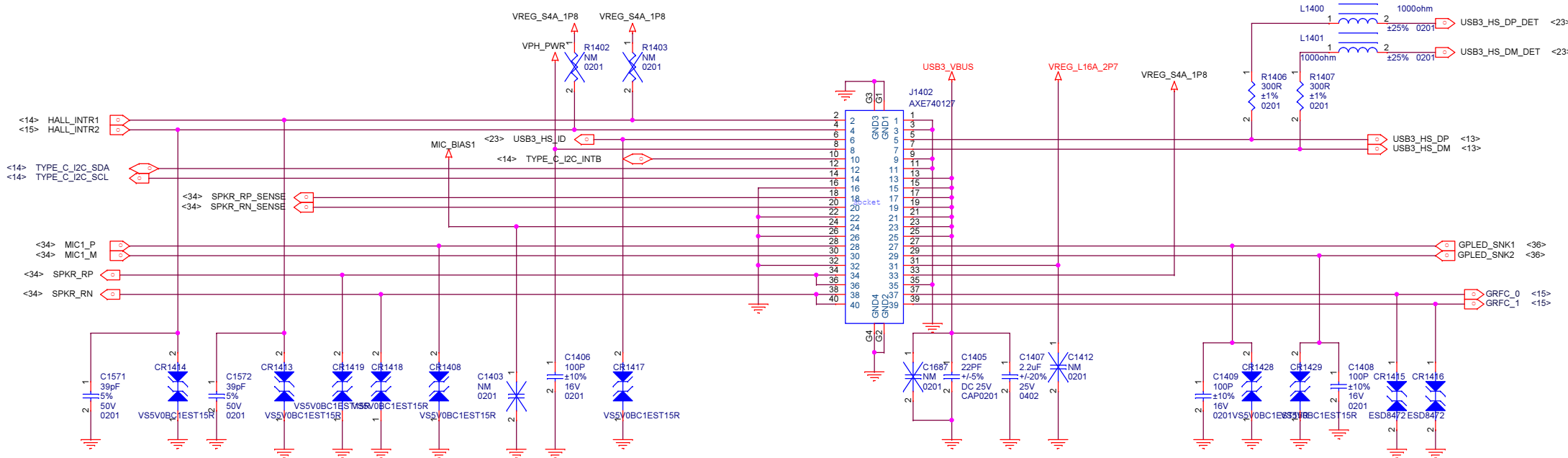
## Rear Cam



## Front Cam

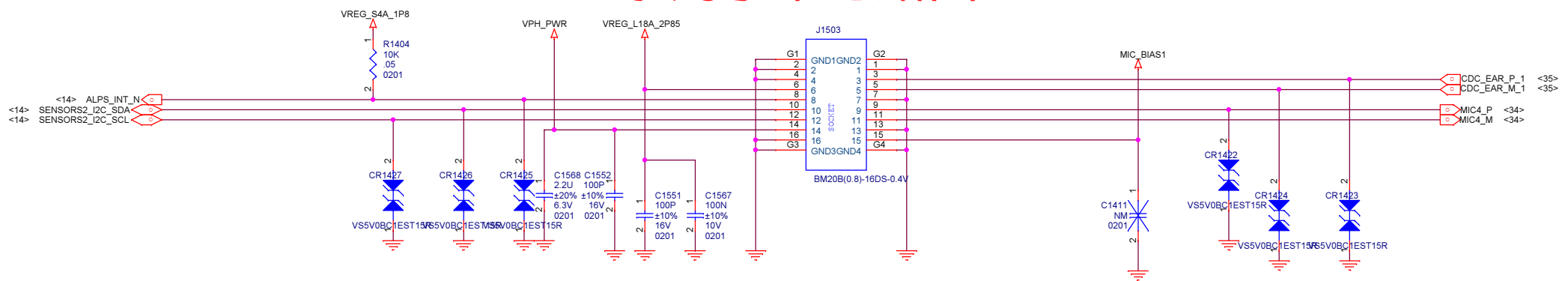


# BOT CONNECTOR

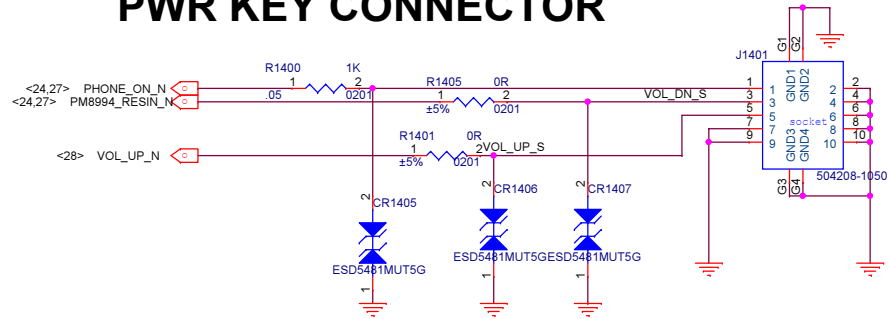


# RECEIVER CONNECTOR

全系列小米电路图QQ909799940



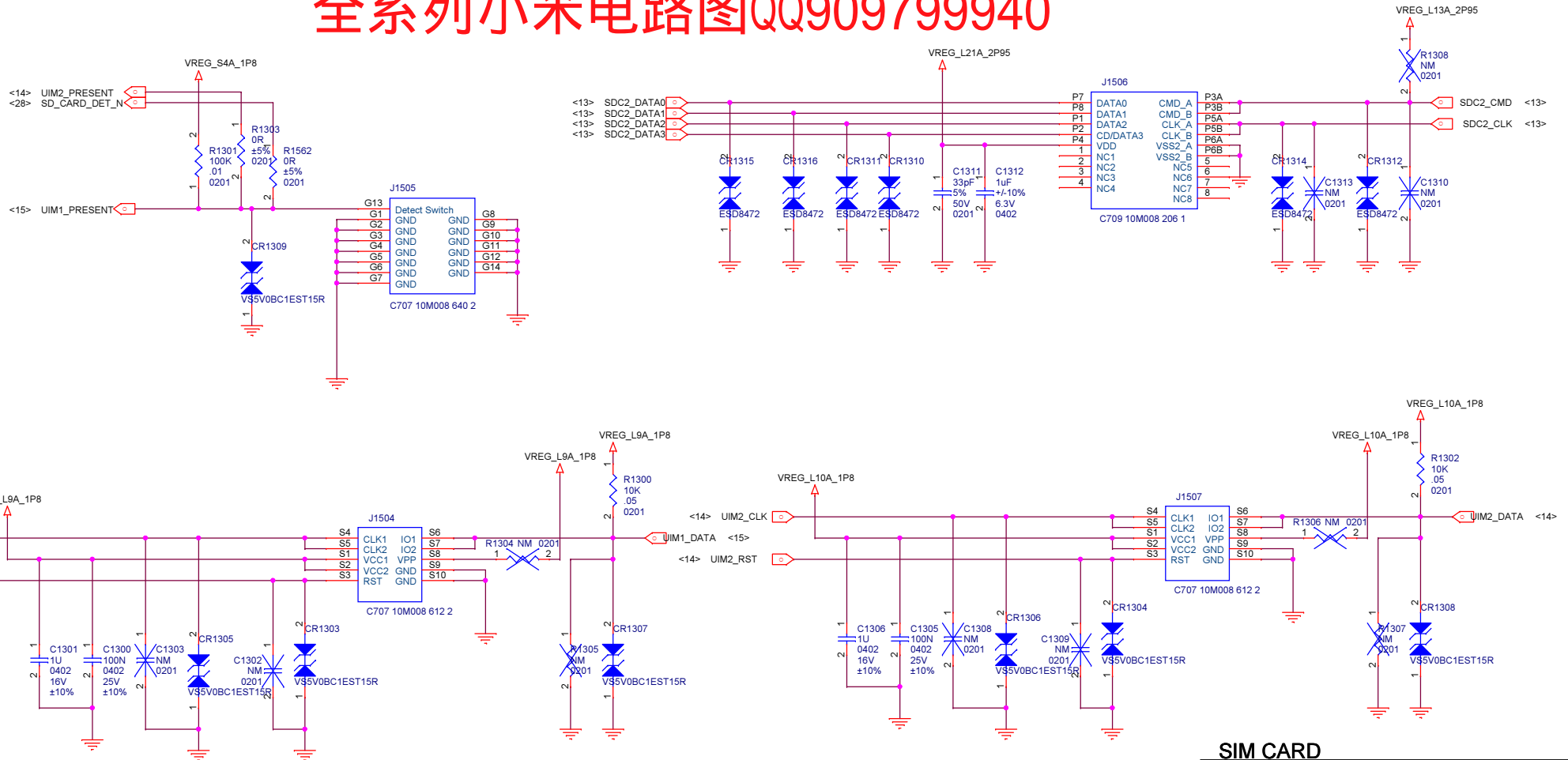
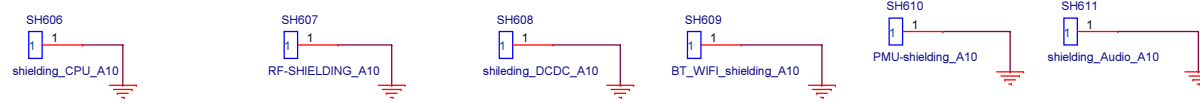
# PWR KEY CONNECTOR



# CONNECTOR

Title			X11
Size	Document Number	Rev	
A3	<Doc>	P0	
Date:	Thursday, December 10, 2015	Sheet	38 of 40

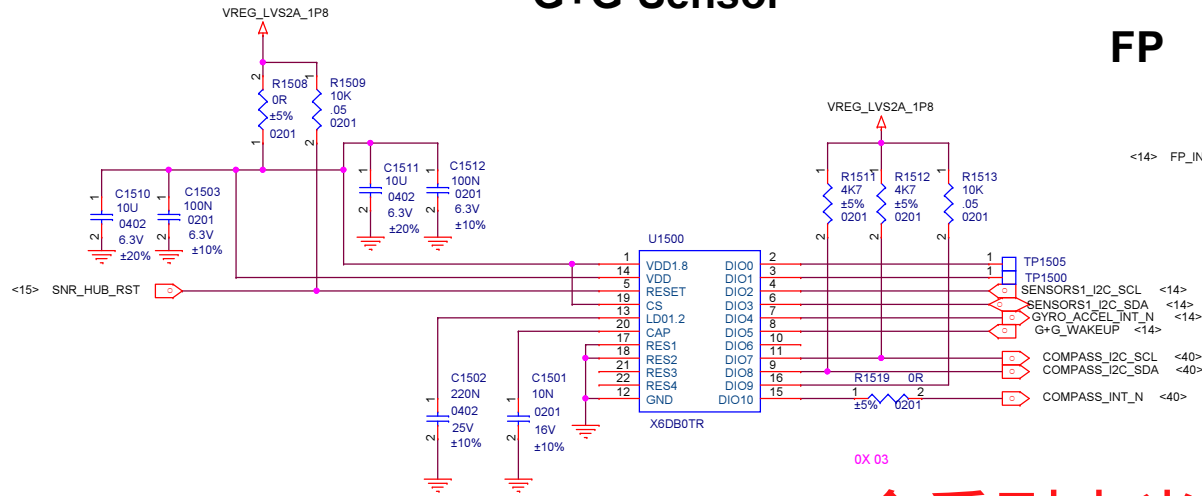
# 全系列小米电路图QQ909799940



SIM CARD		
Title	X11	
Size A3	Document Number <Doc>	Rev P0
Date: Thursday, December 10, 2015	Sheet 39	of 40

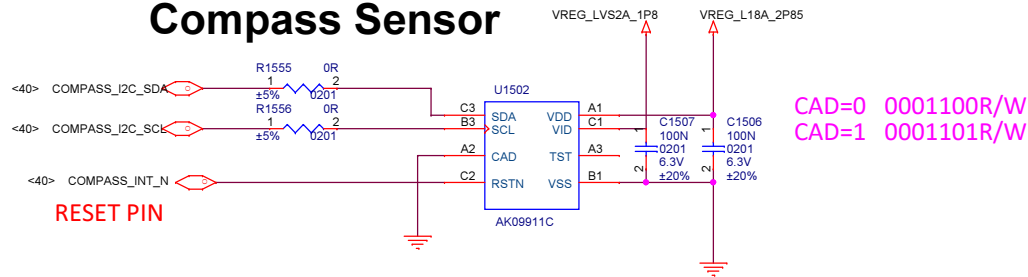
# G+G-Sensor

# FP

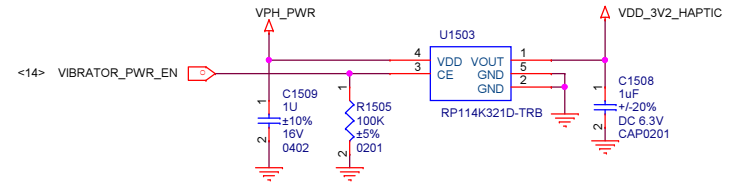
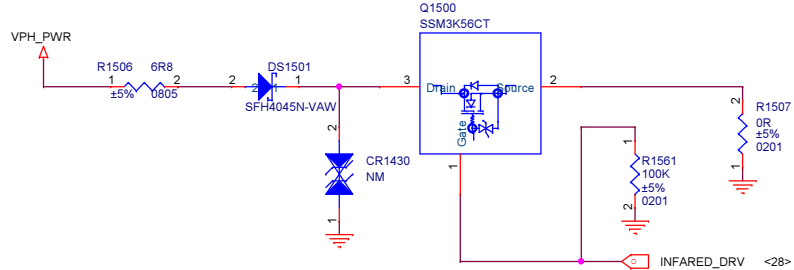
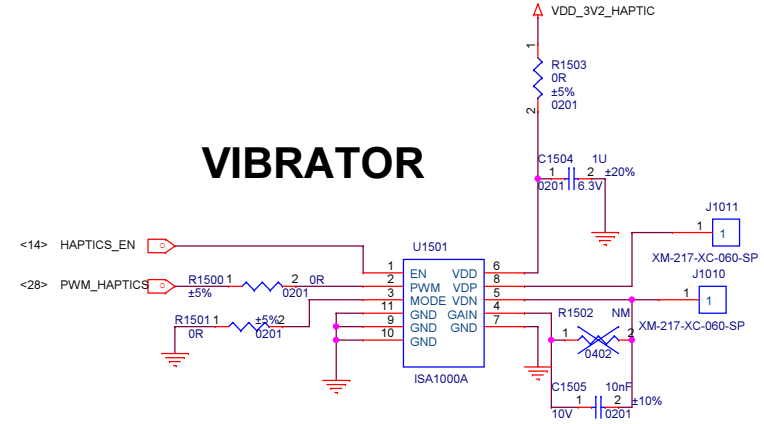


# 全系列小米电路图QQ909799940

# Compass Sensor



# VIBRATOR



# SENSOR

Title			X11
Size	Document Number	Rev	
A3	<Doc>	P0	
Date:	Thursday, December 10, 2015	Sheet	40 of 40