

A

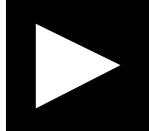
B

C

D

ADSP-CM408F EZ-KIT

SCHEMATIC

 ANALOG DEVICES		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT TITLE_PAGE	
Size C	Board No. A0341-2012	Rev 1.0	
Date 08/26/2015	Sheet 1 of 14		

A

B

C

D

1

1

2

2

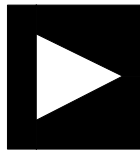
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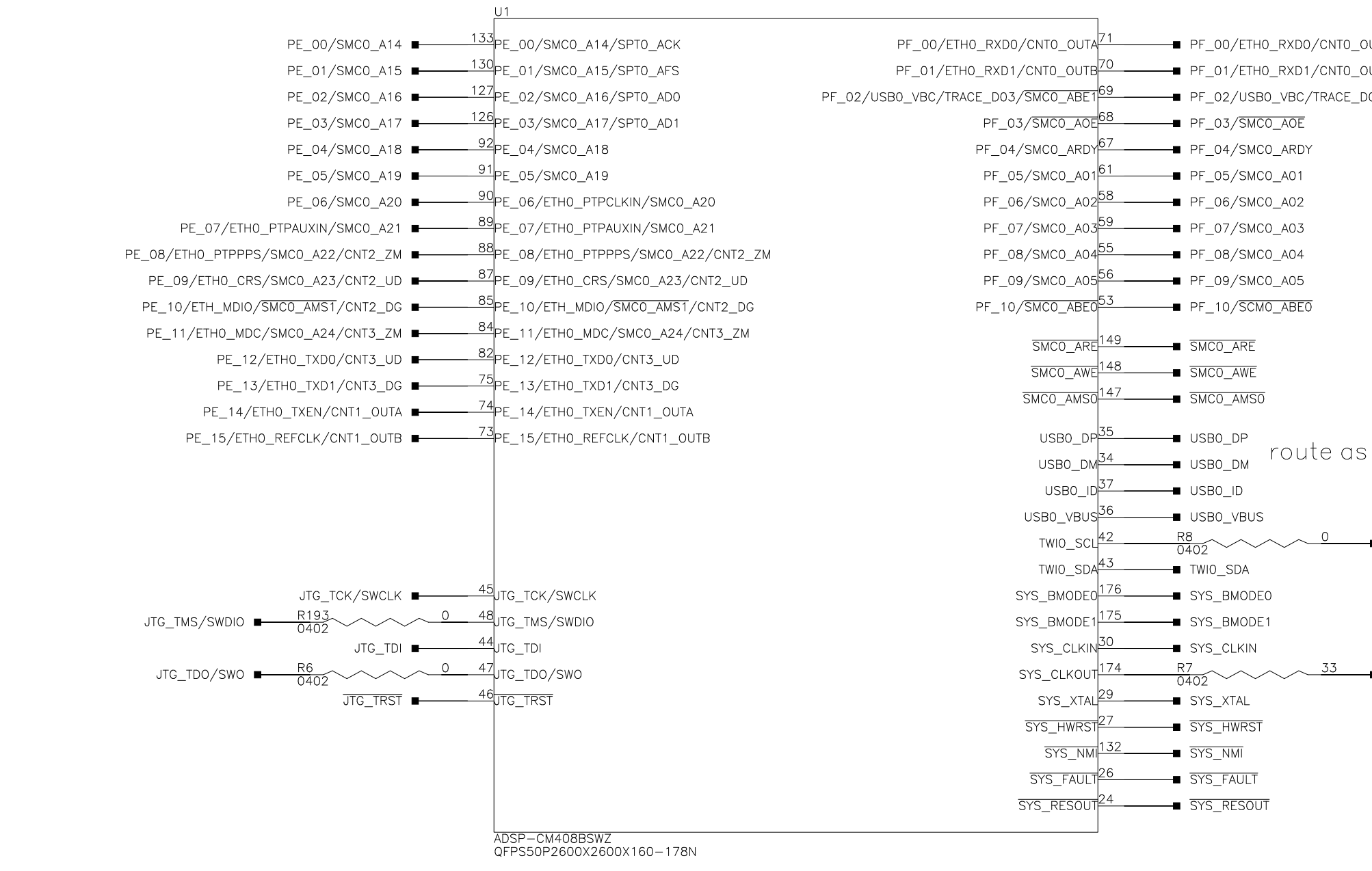
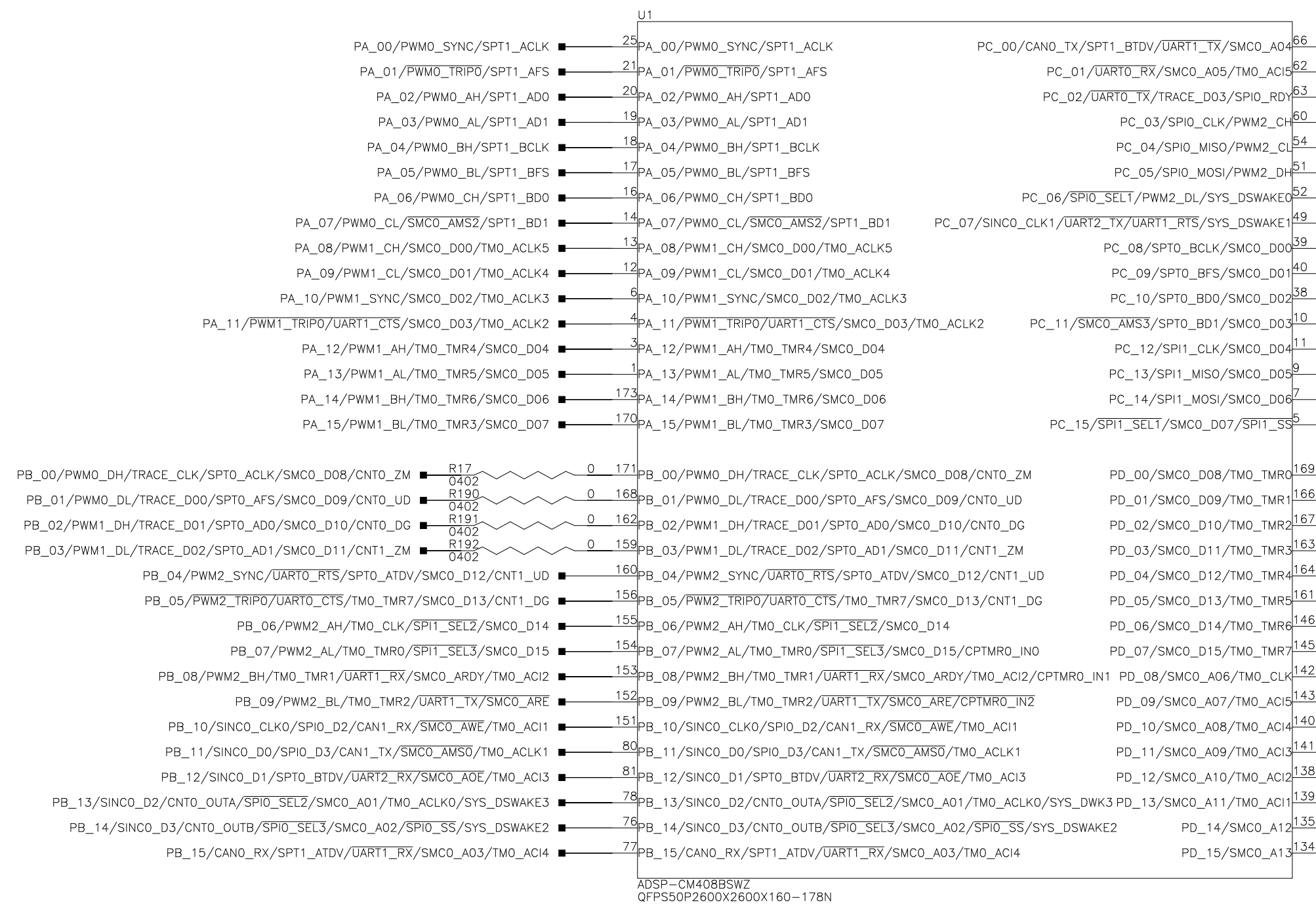
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4

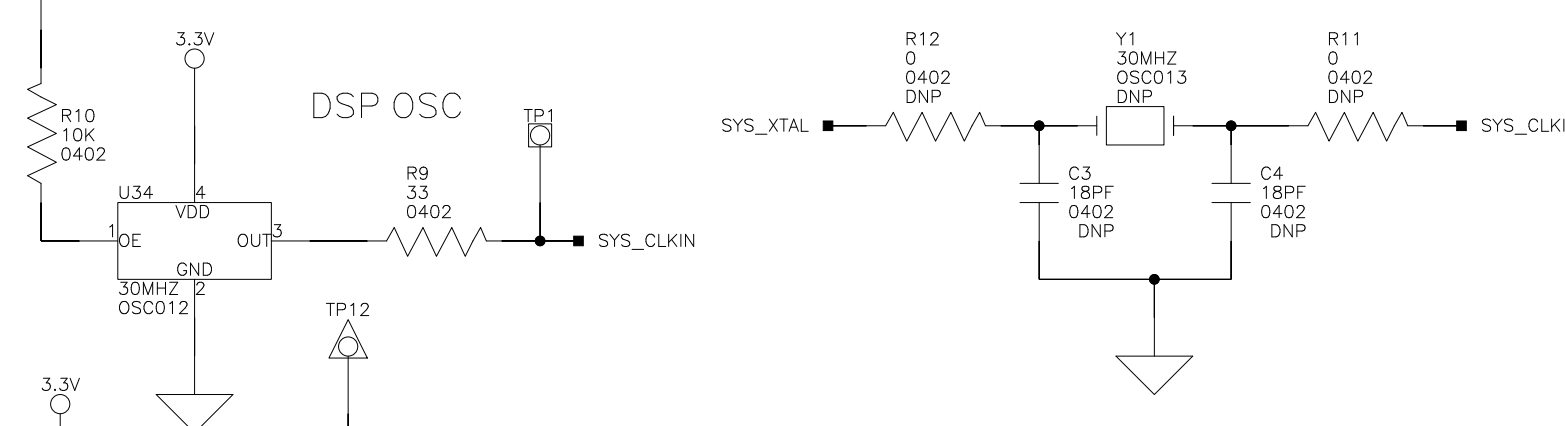
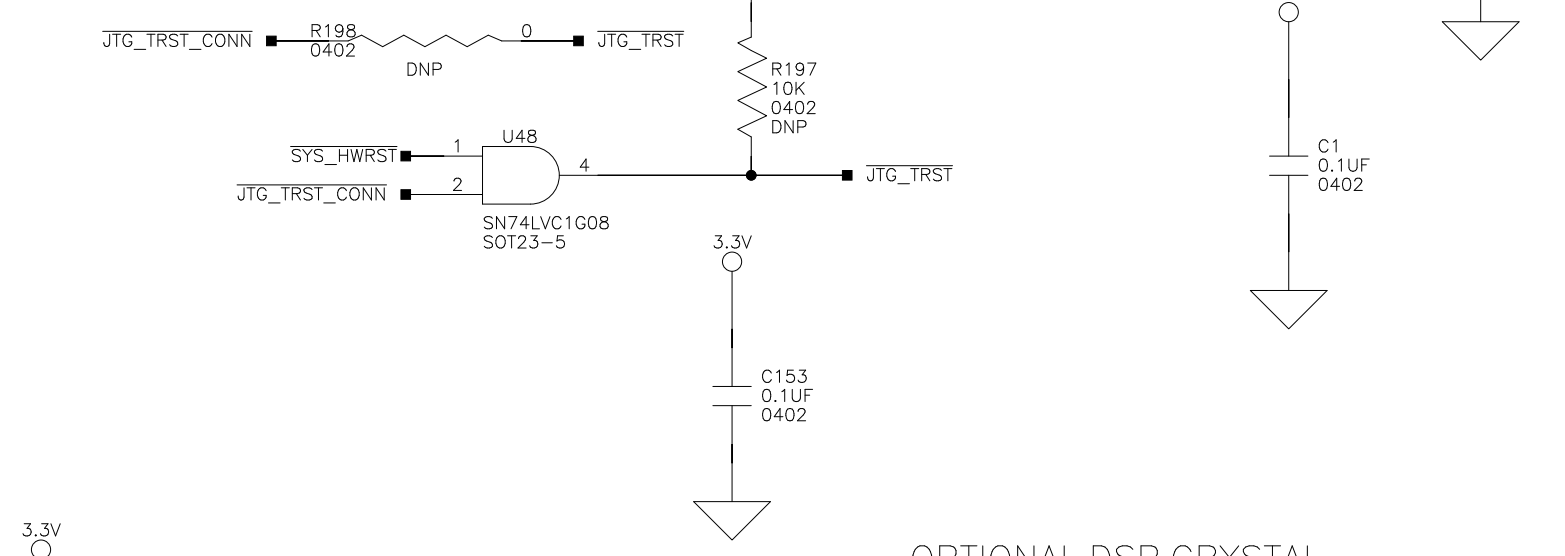
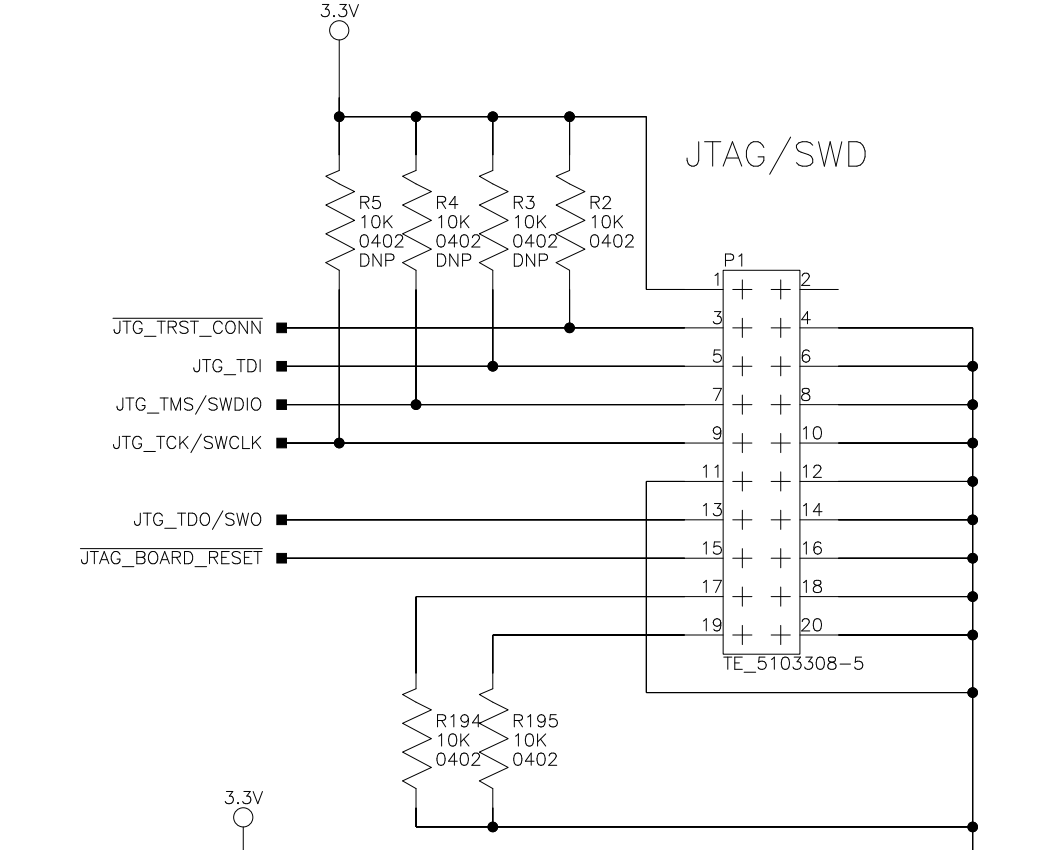
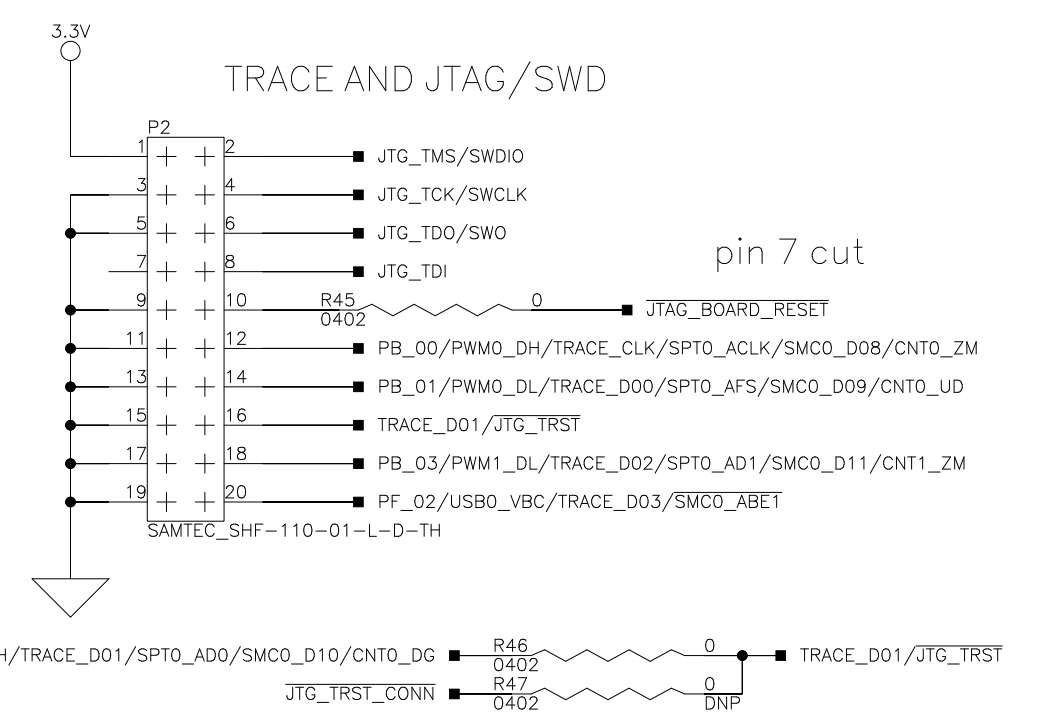
4

REV	ECO#	DESCRIPTION	ENGR	DATE
0.1		Initial release	GC	09/14/2012
0.1A	ECO2012-068	BOM REV 0.2, removed JTAG pullups, changed TRST pull-down to 4.7K	GC	10/31/2012
0.2	ECO2013-001	ADC signals moved, ABE0/1 connected to SRAM, see ECO	GC	01/22/2013
0.2A	ECO2013-034	TRST pull down installed, BYP_A0 cap now 10uF	GC	07/02/2013
1.0	ECO2015-030	Add NAND gates to SRAM BSEL	HF	08/26/2015

 ANALOG DEVICES		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT Revisions	
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Date 08/26/2015		Sheet 1 of 14	

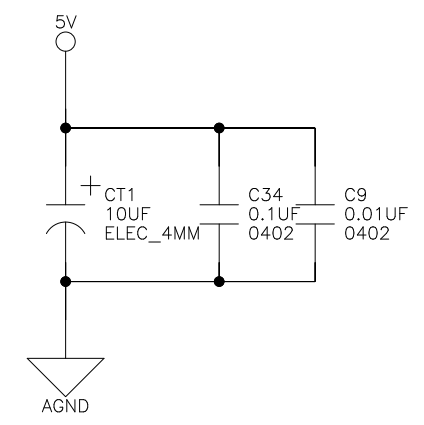
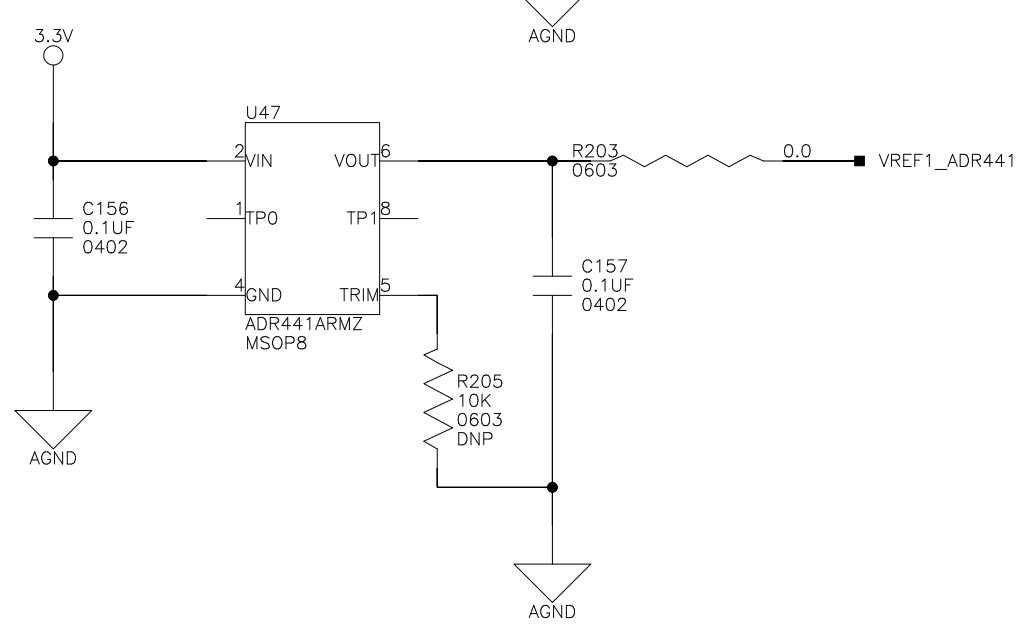
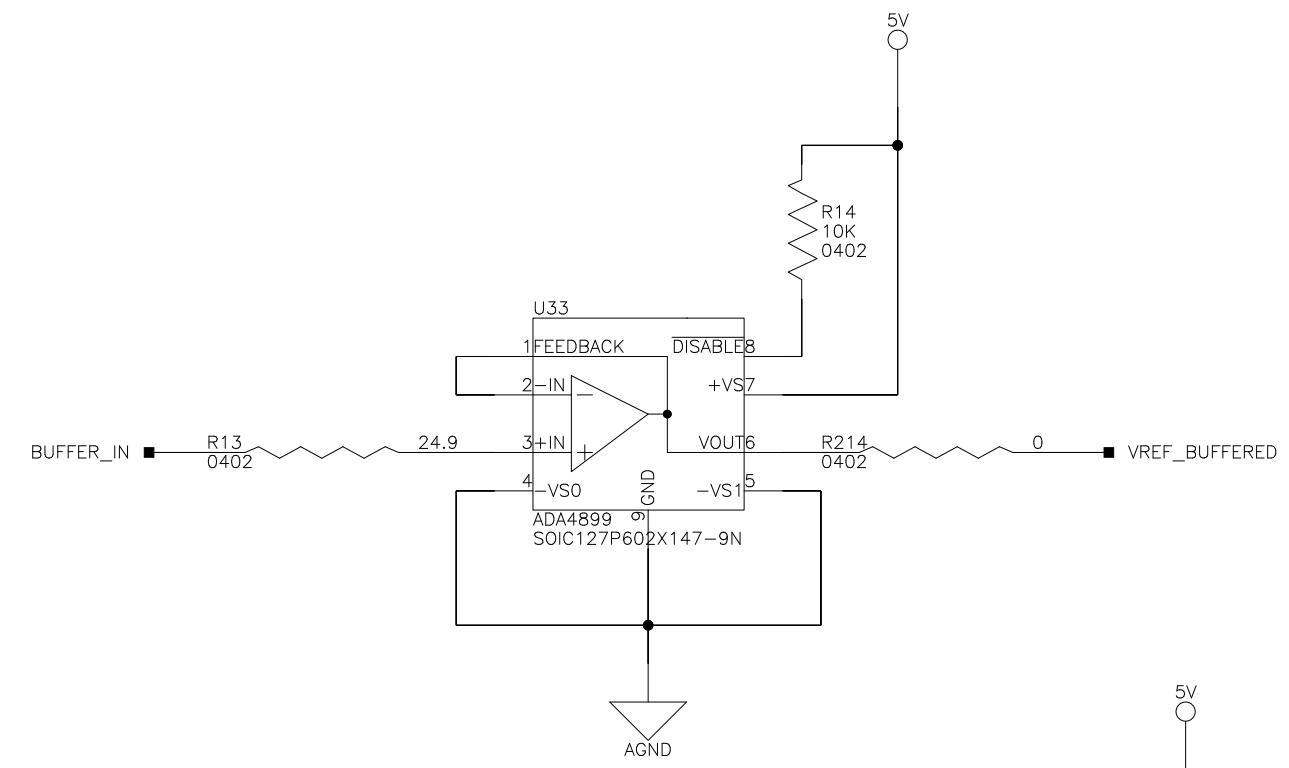
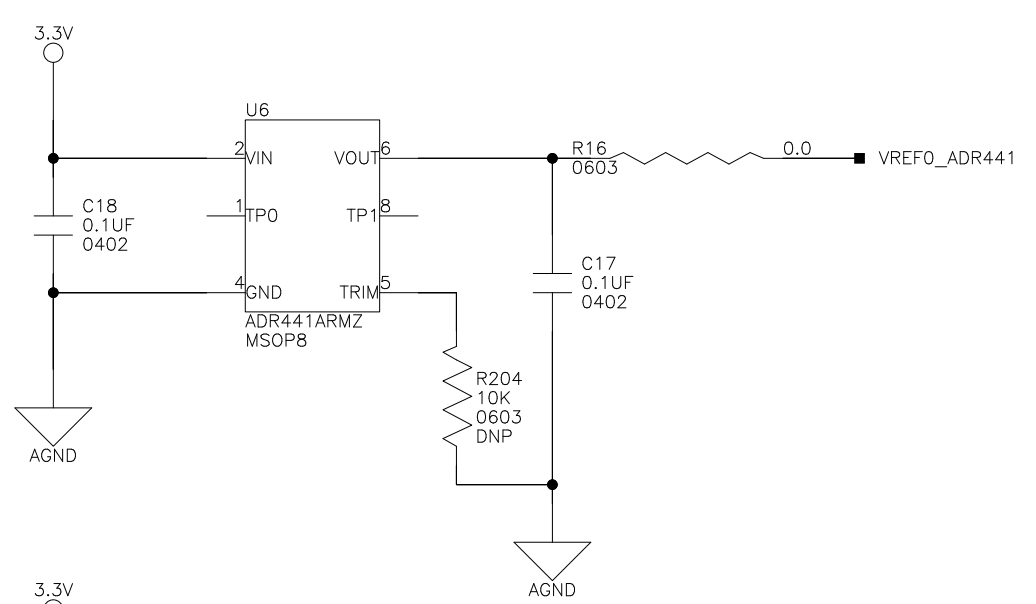
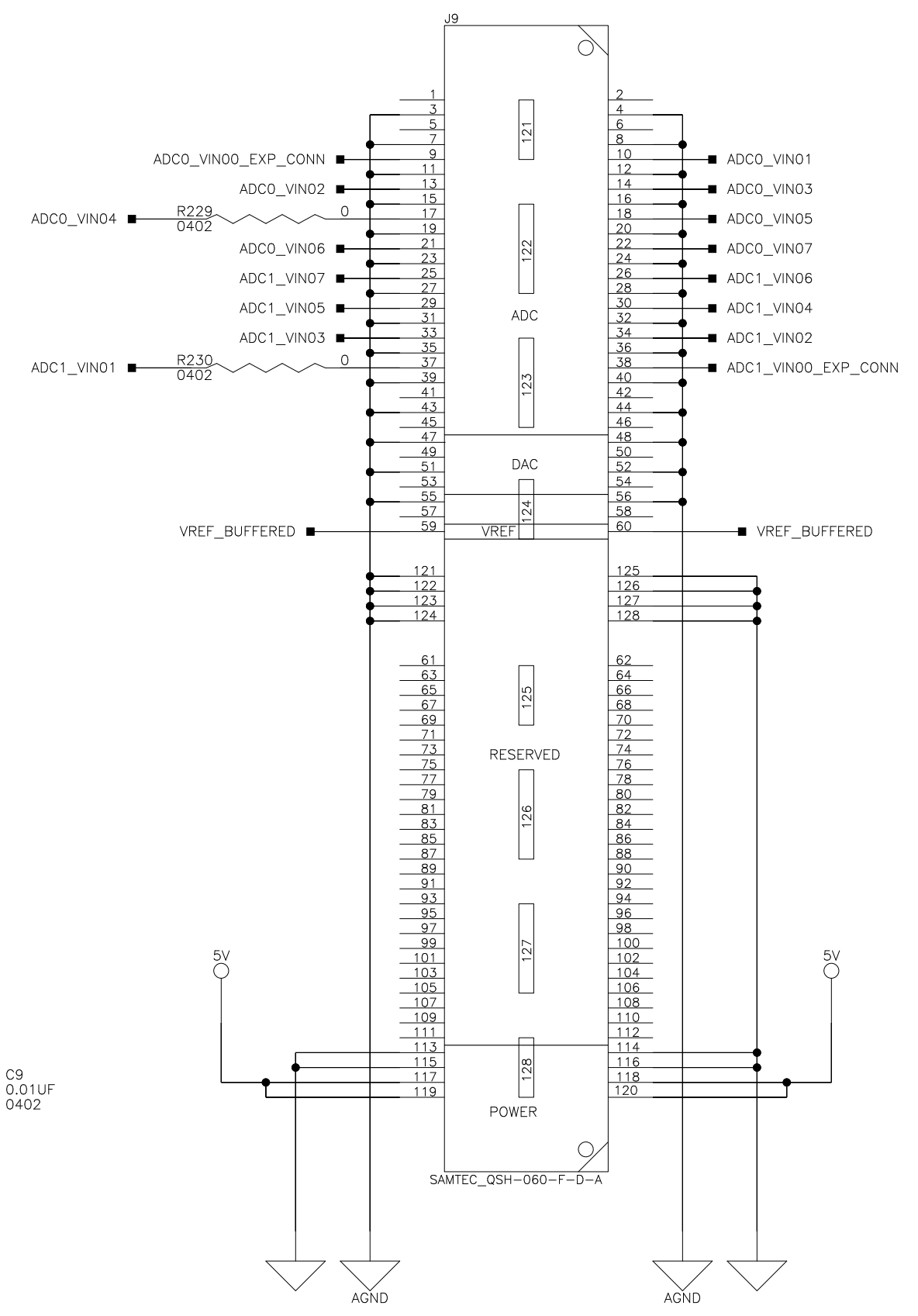
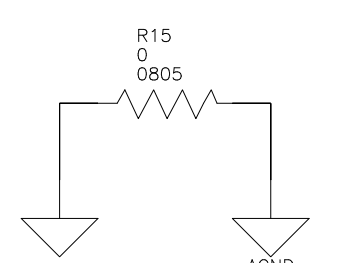
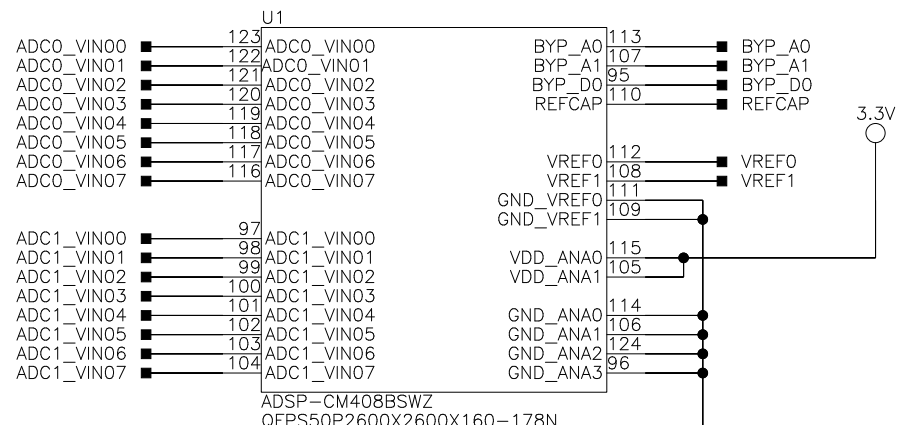


route as differential pair

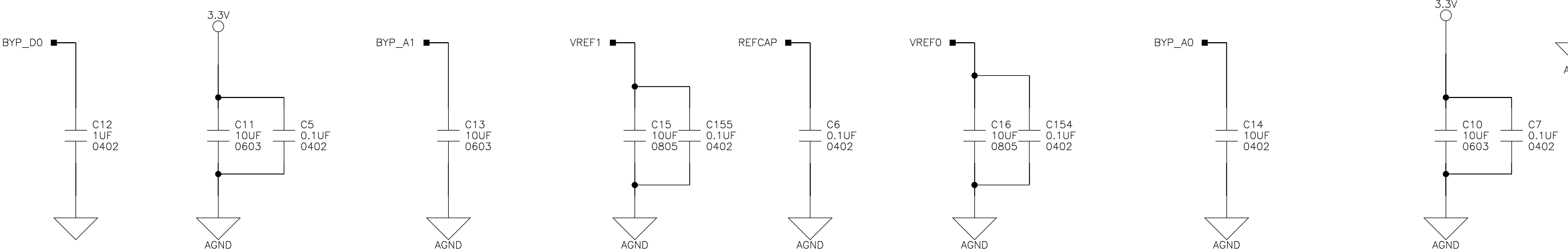
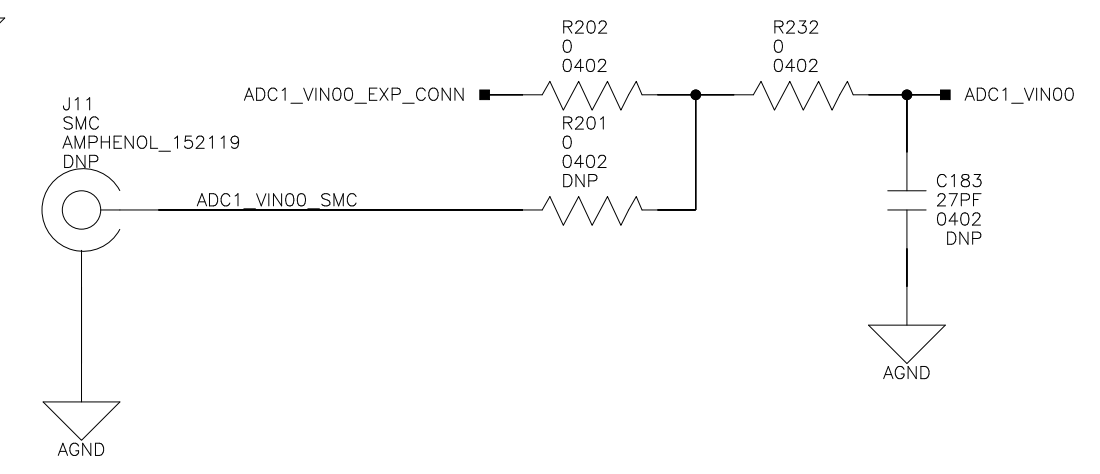
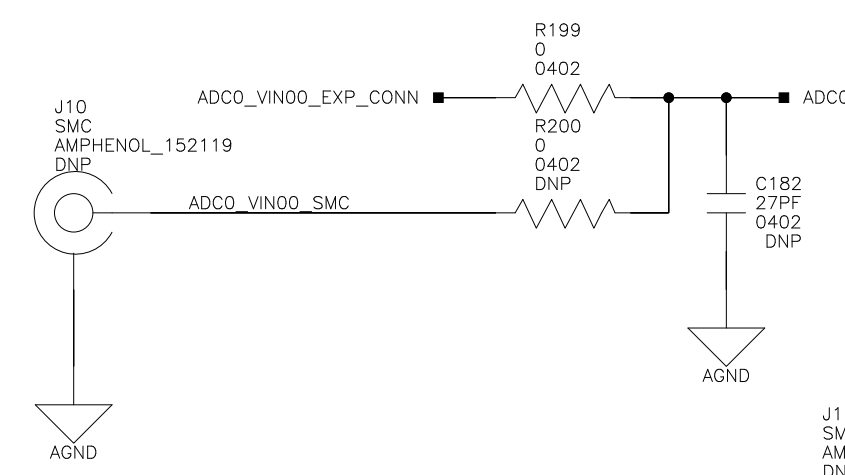


ANALOG DEVICES
 20 Cotton Road
 Nashua, NH 03063
 PH: 1-800-ANALOGD

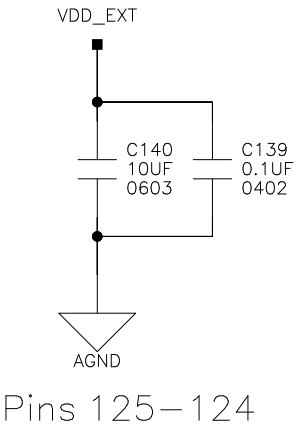
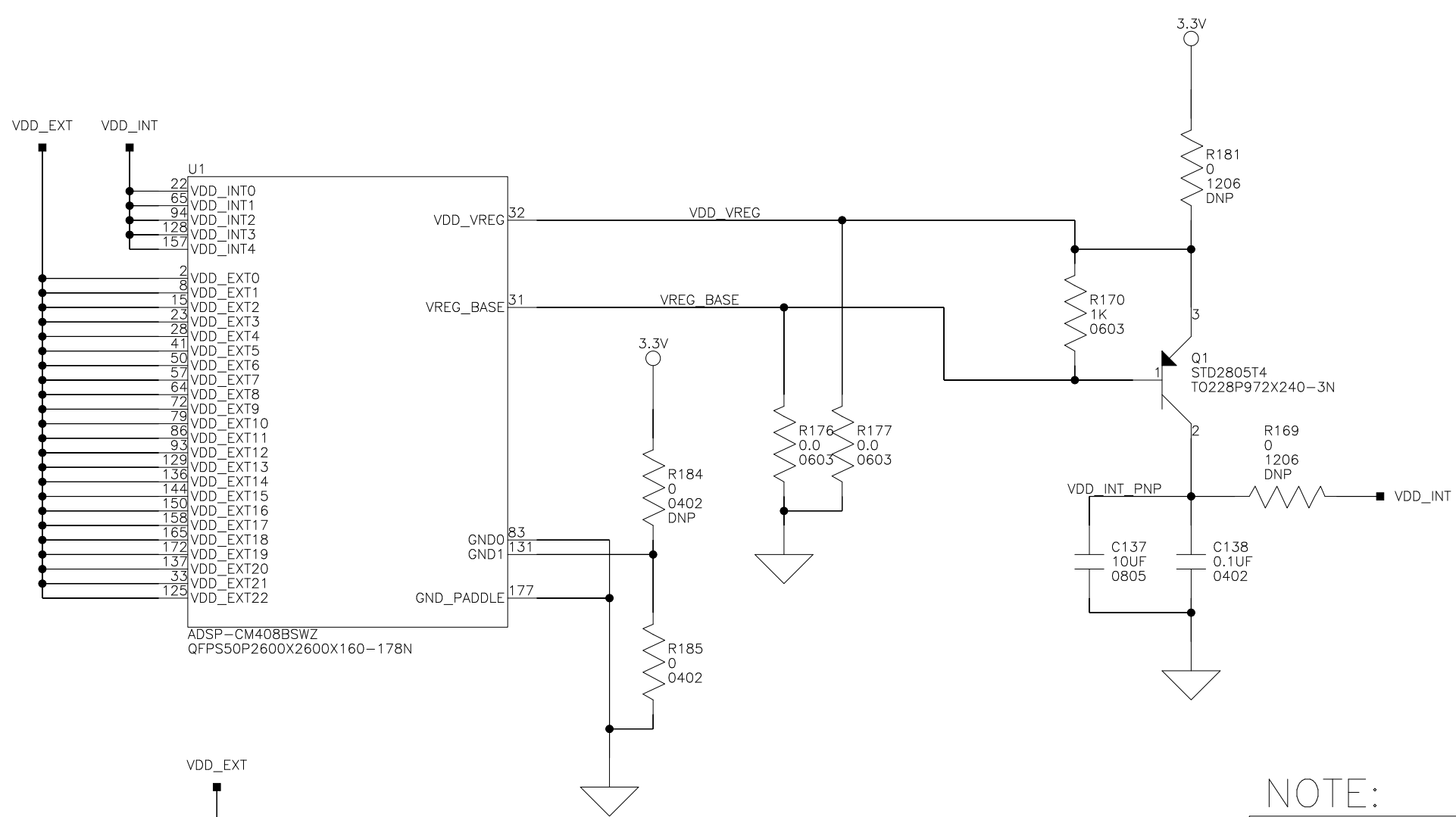
Title ADSP-CM408F EZ-KIT PROCESSOR, JTAG/SWD AND TRACE CONN, CLOCK		
Size C	Board No. A0341-2012	Rev 1.0
Date 08/26/2015	Sheet 2 of 14	



ANALOG CONN

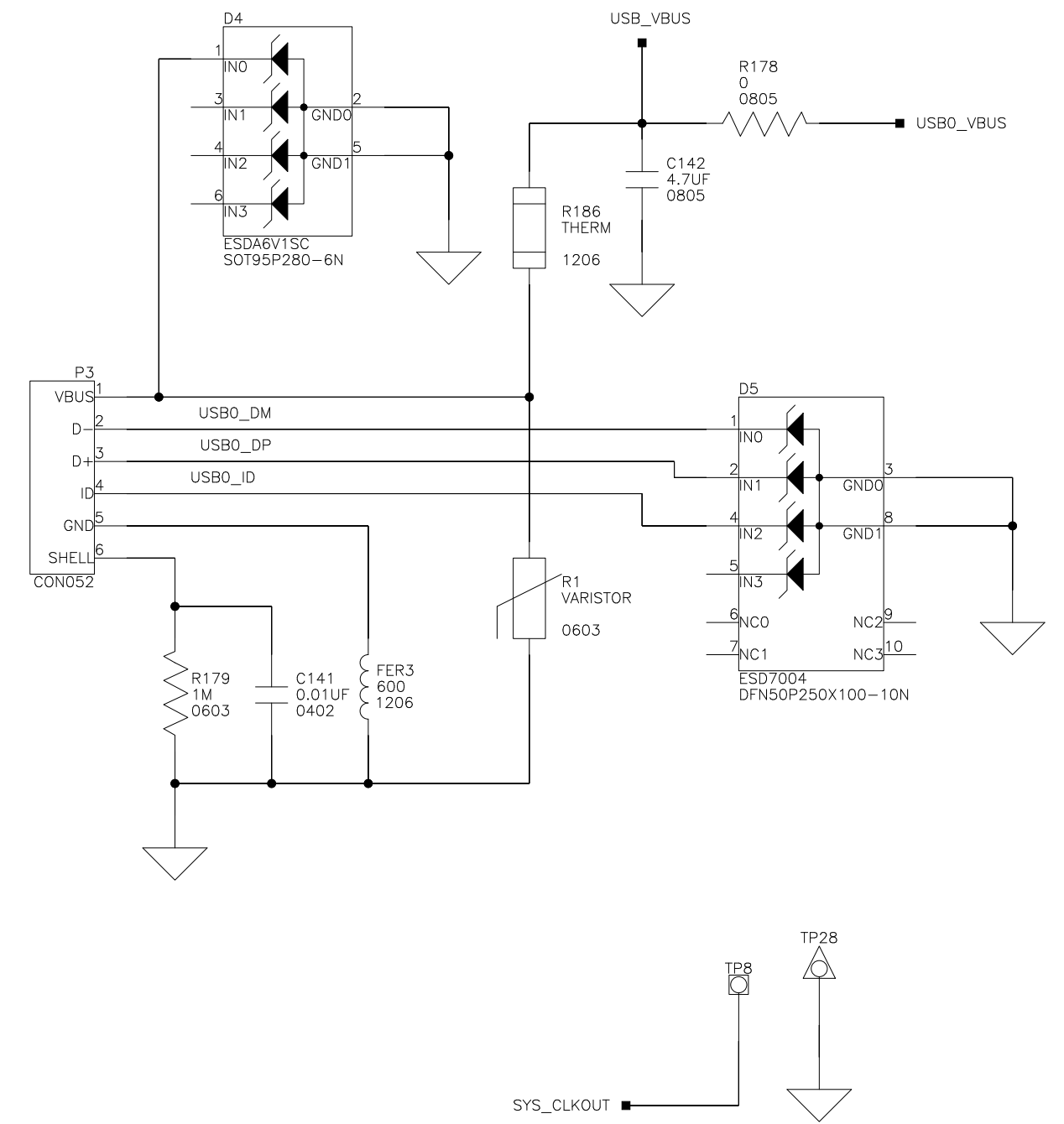


		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD
Title ADSP-CM408F EZ-KIT ANALOG CONN, POWER		
Size C	Board No. A0341-2012	Rev 1.0
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NOTE: CONNECT PIN 131 DIRECTLY TO GROUND FOR CUSTOMER DESIGNS

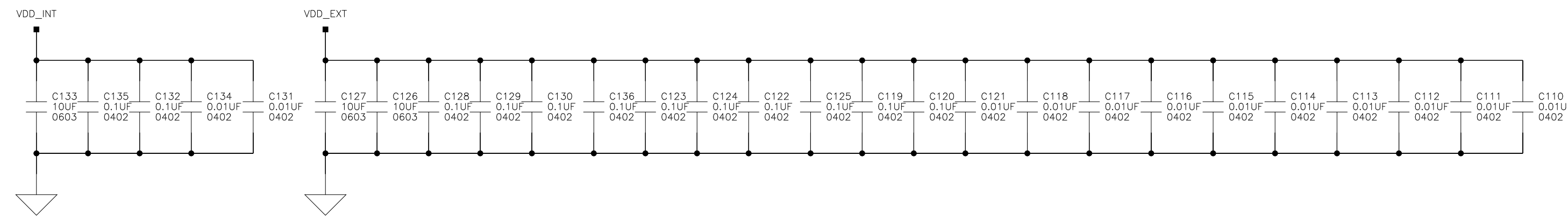
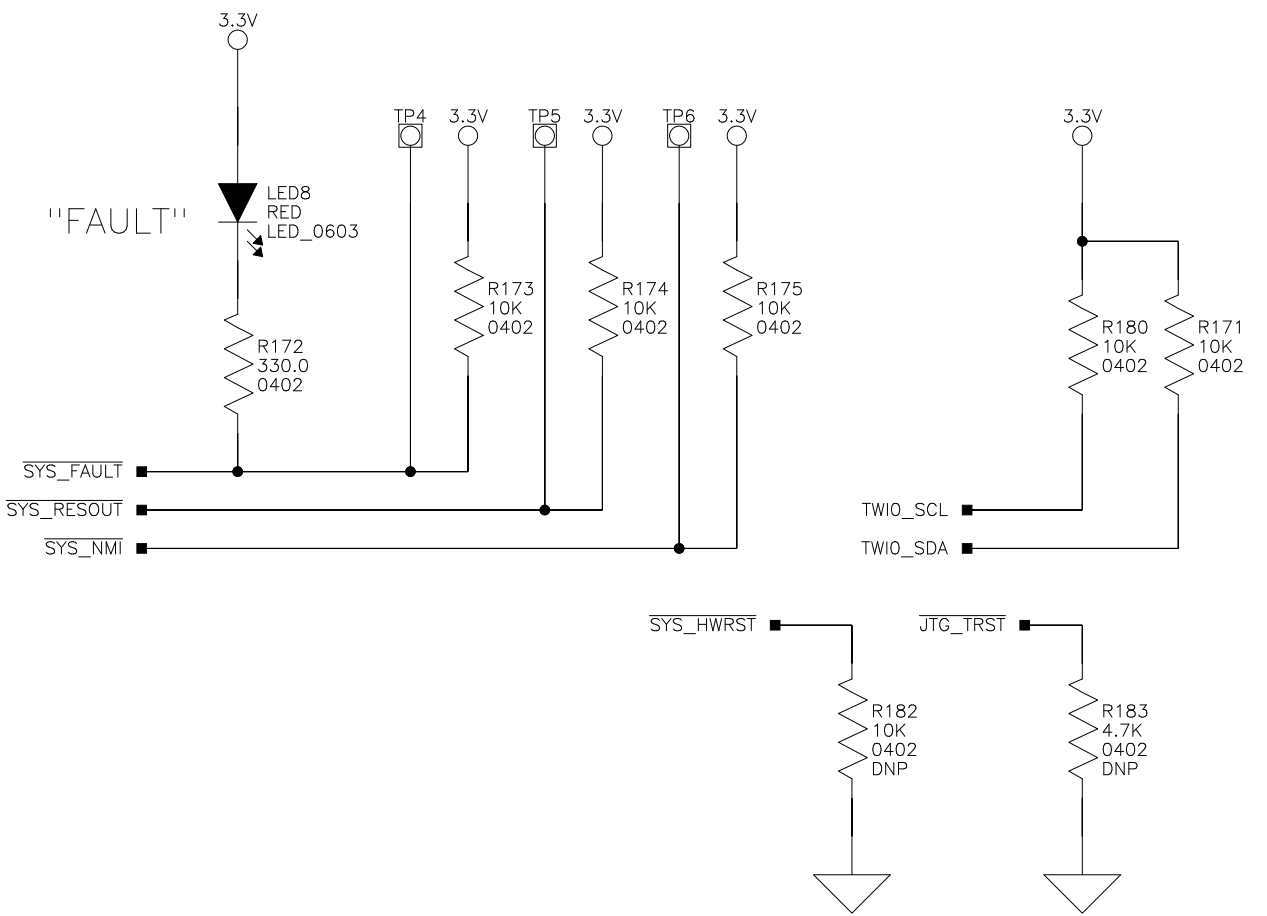
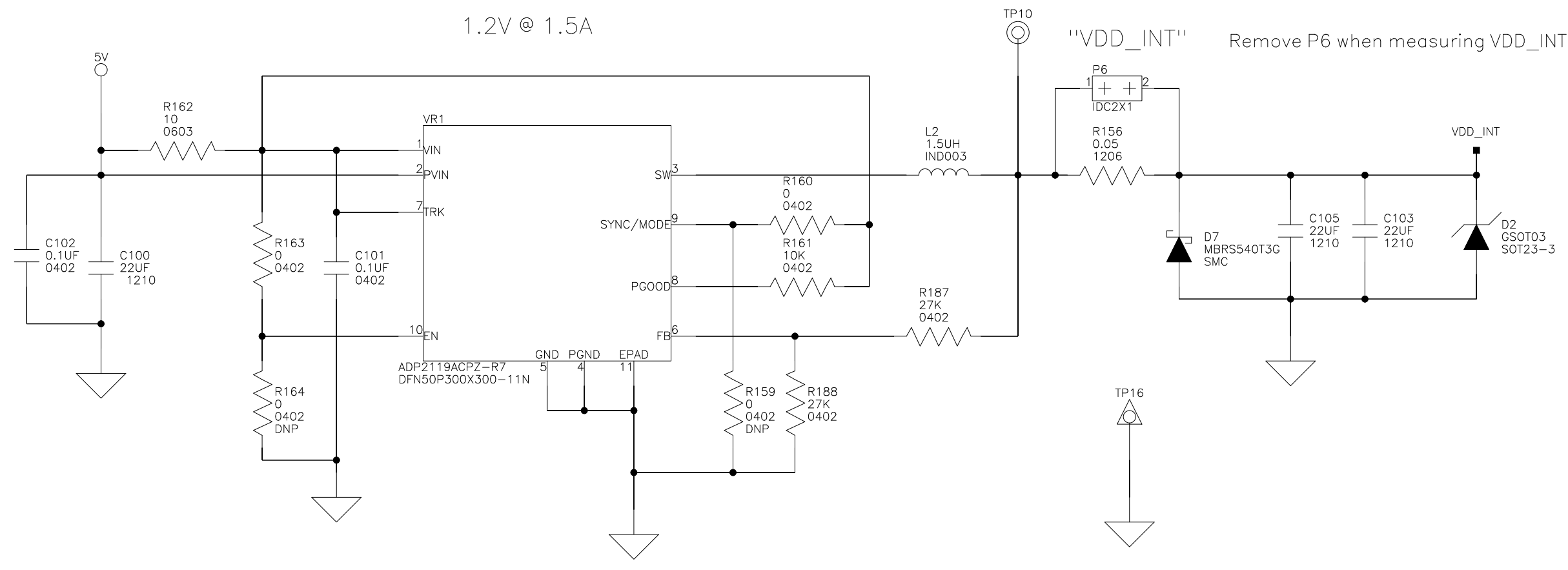
NOTE:
 INTERNAL REGULATOR
 REMOVE R177, R176, P6, R156, R163
 INSTALL R181, R169, R164
 EXTERNAL REGULATOR
 REMOVE R181, R169, R164
 INSTALL R177, R176, P6, R156, R163



SJ5 SHORTING JUMPER DEFAULT=INSTALLED

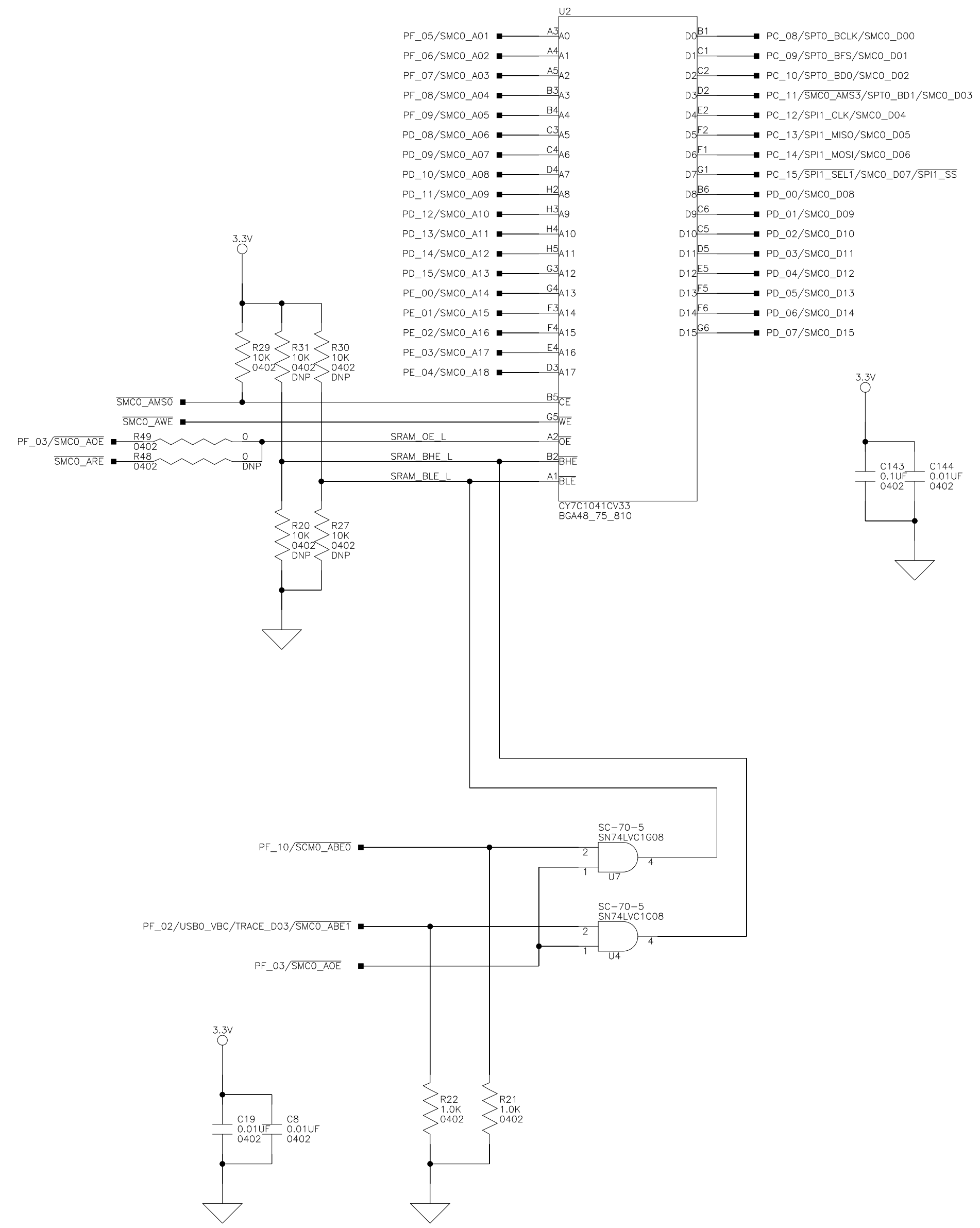
1.2V @ 1.5A

"VDD_INT" Remove P6 when measuring VDD_INT

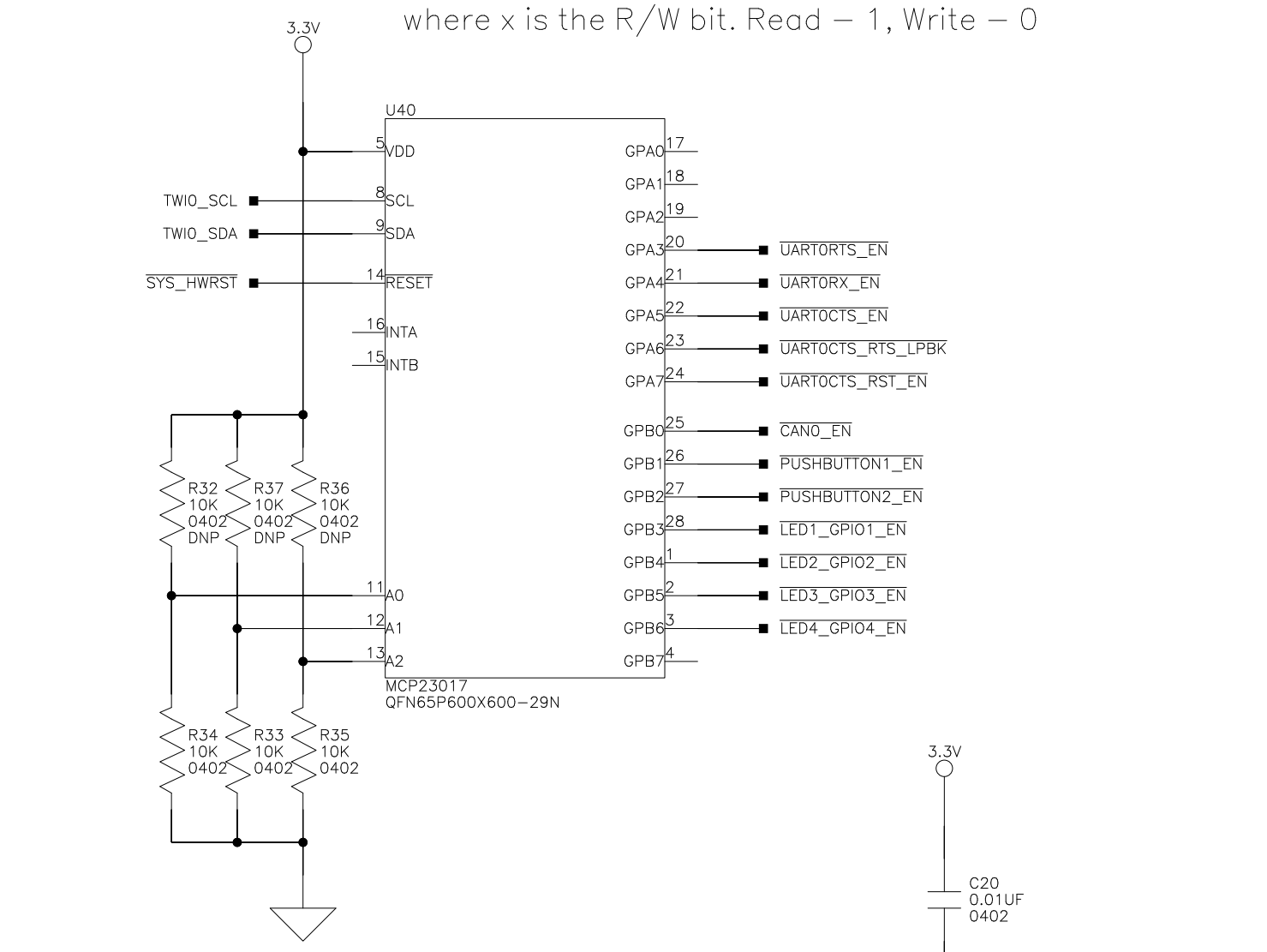


		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD
Title ADSP-CM408F EZ-KIT DIGITAL POWER, VDDINT, USB		
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4Mb (256K x 16) SRAM

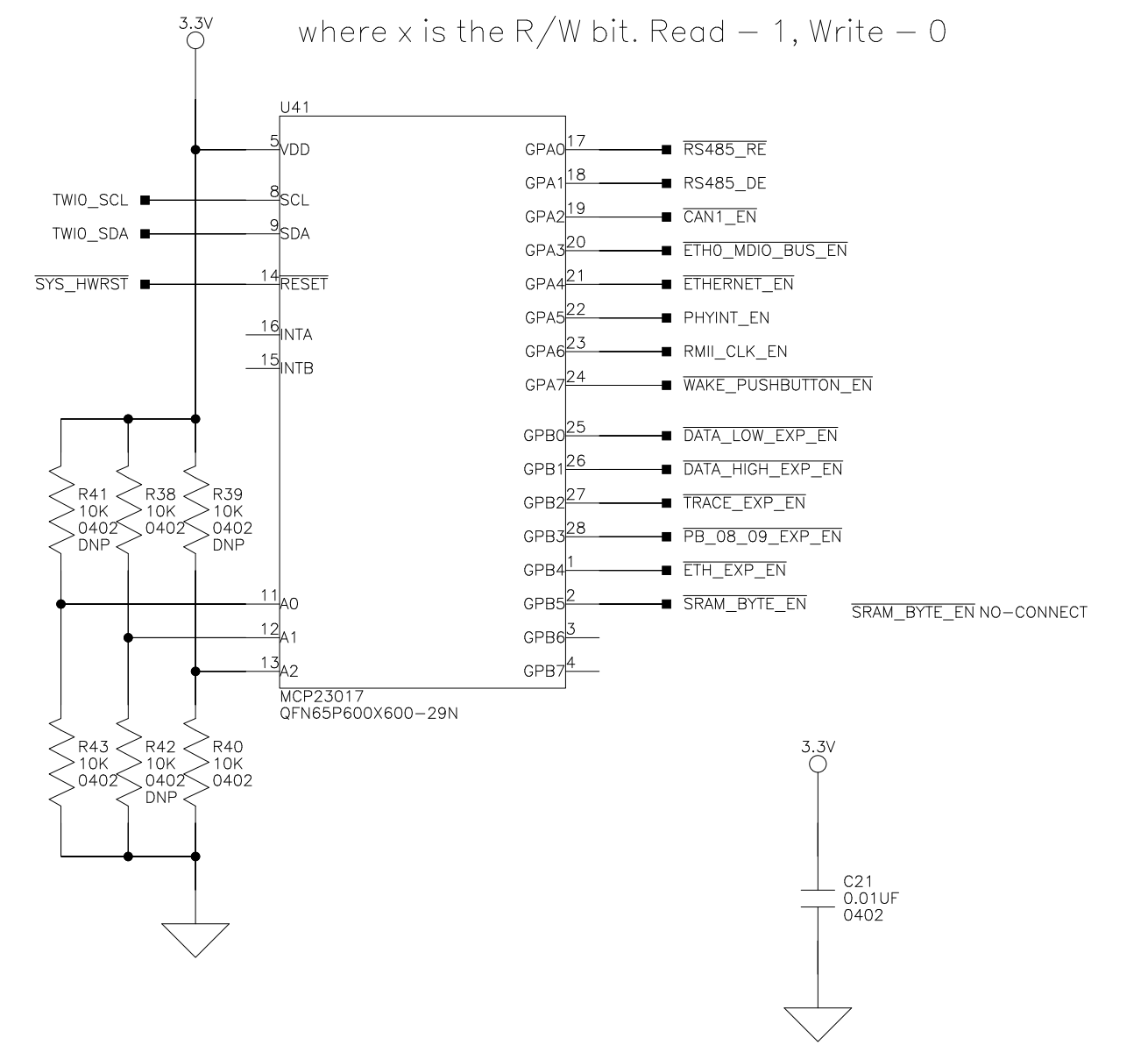


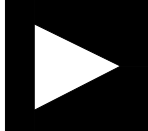
TWI address 0100 000x where x is the R/W bit. Read = 1, Write = 0

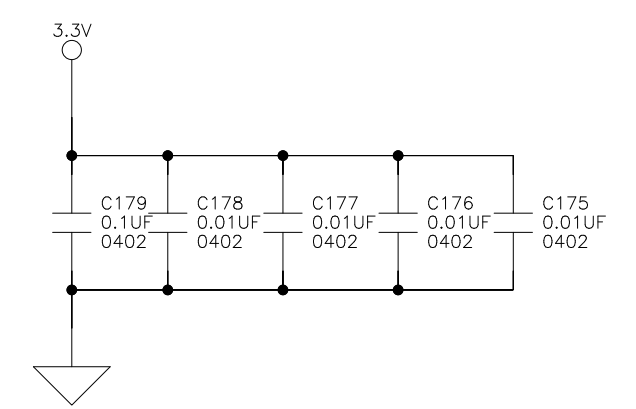
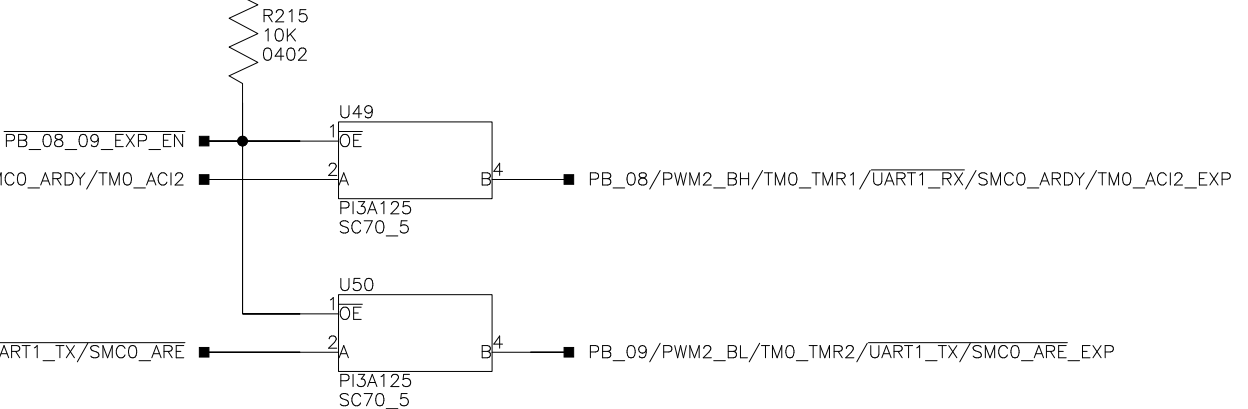
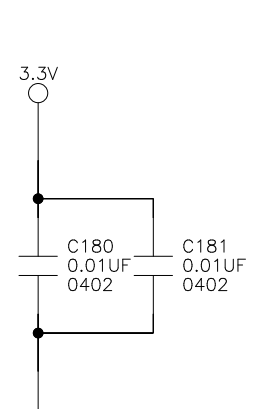
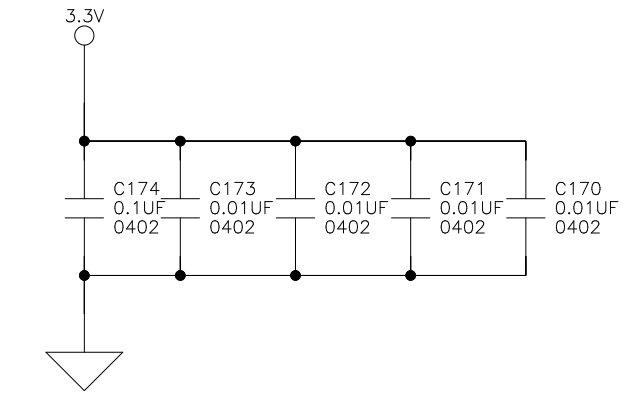
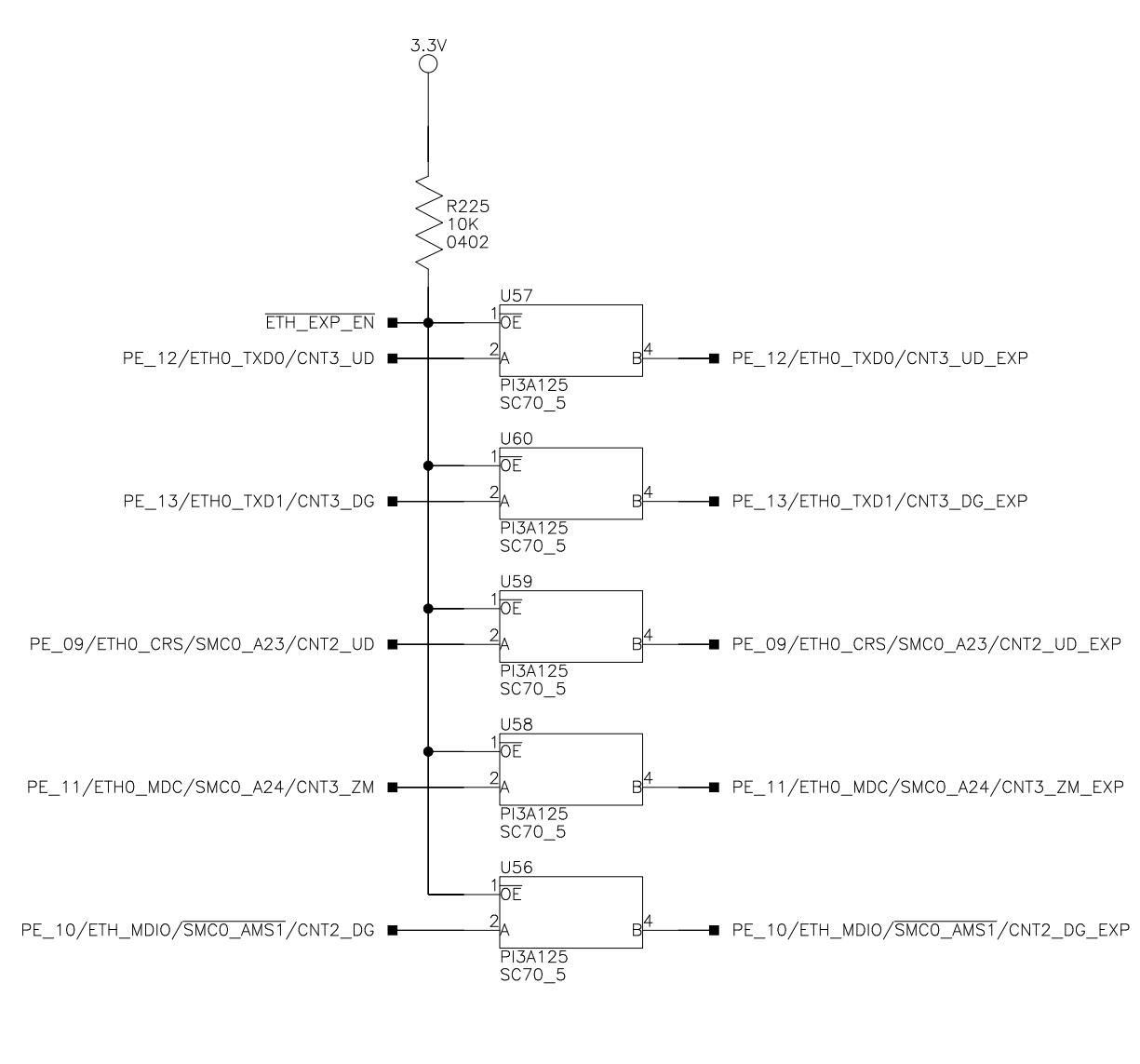
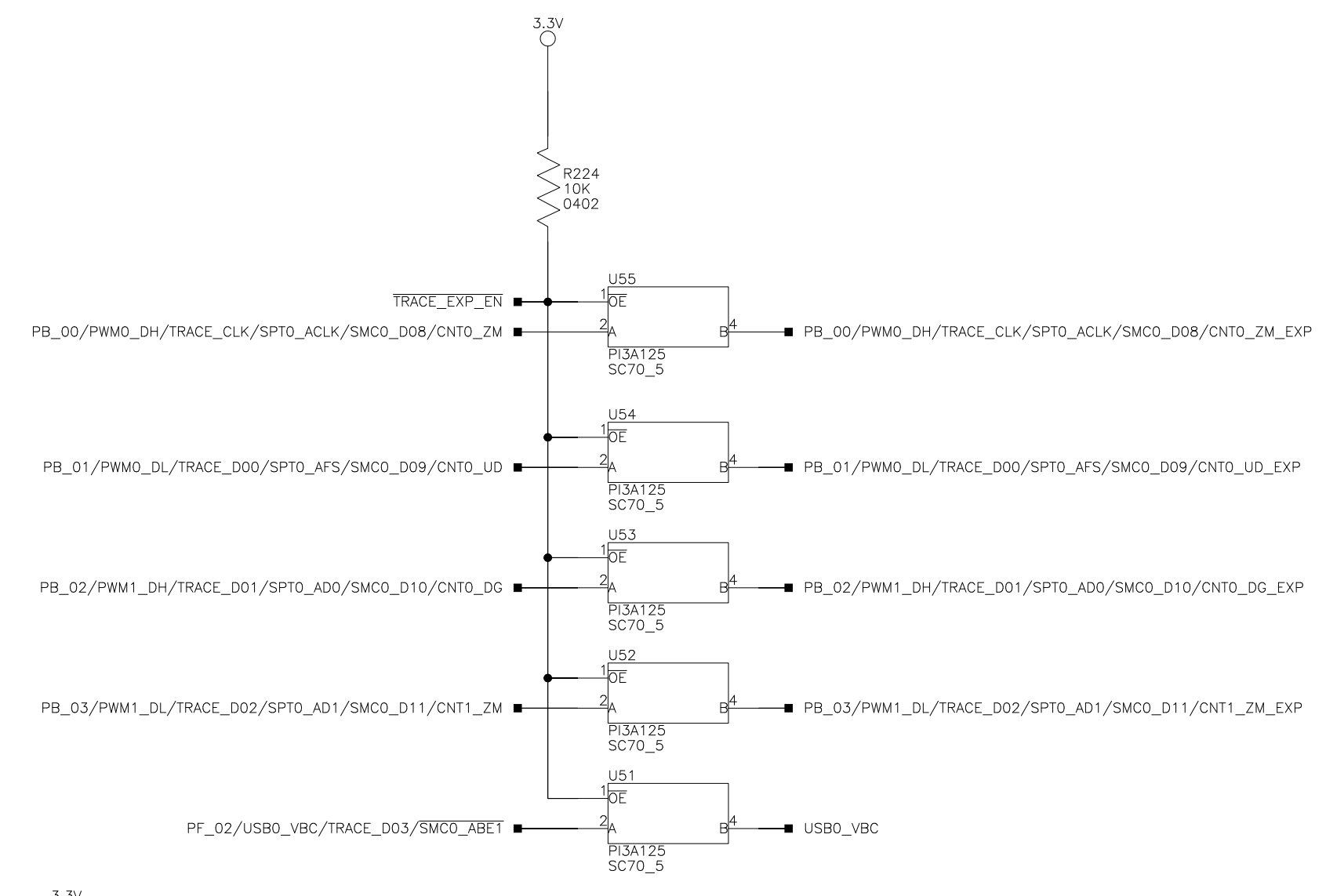
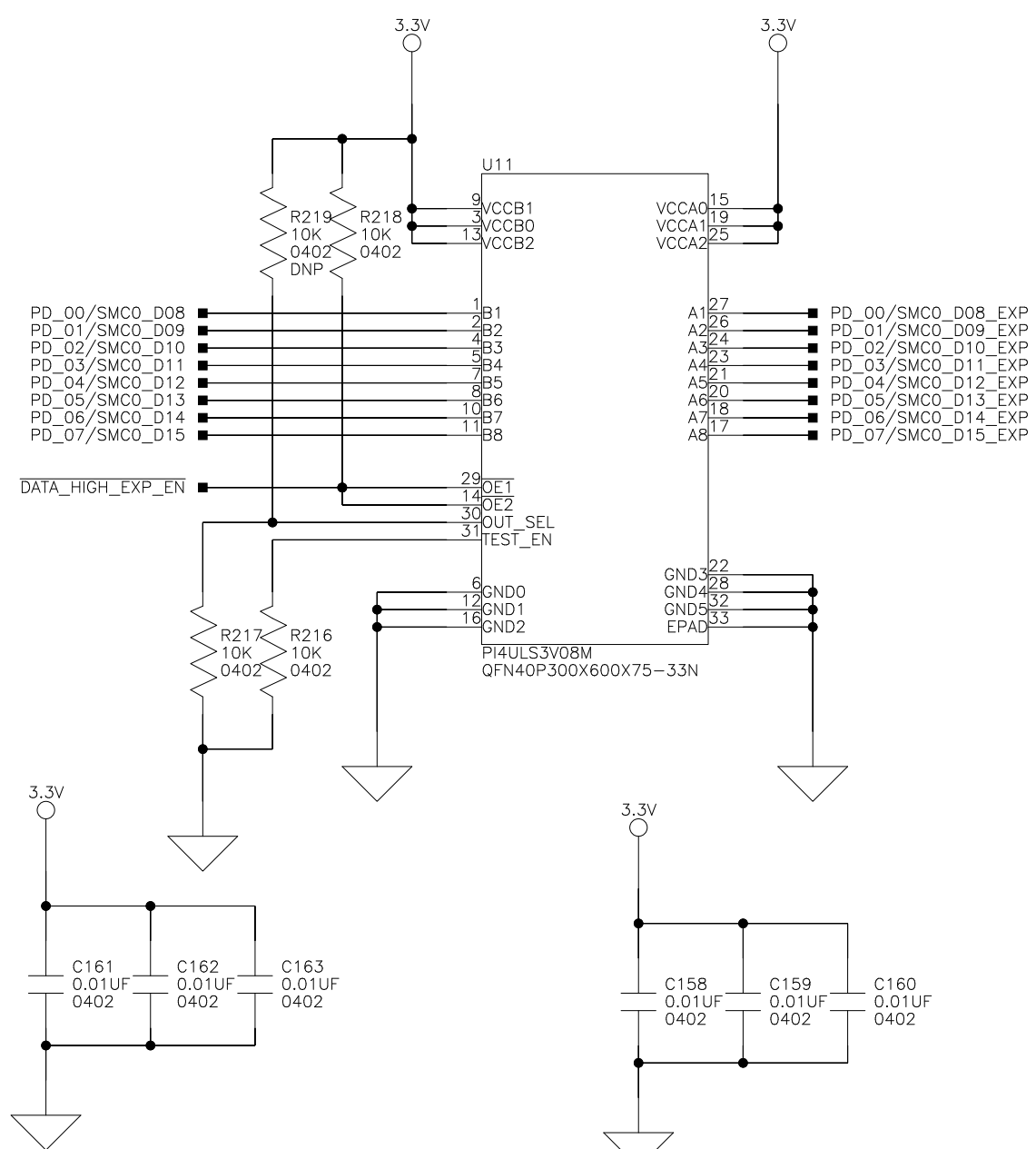
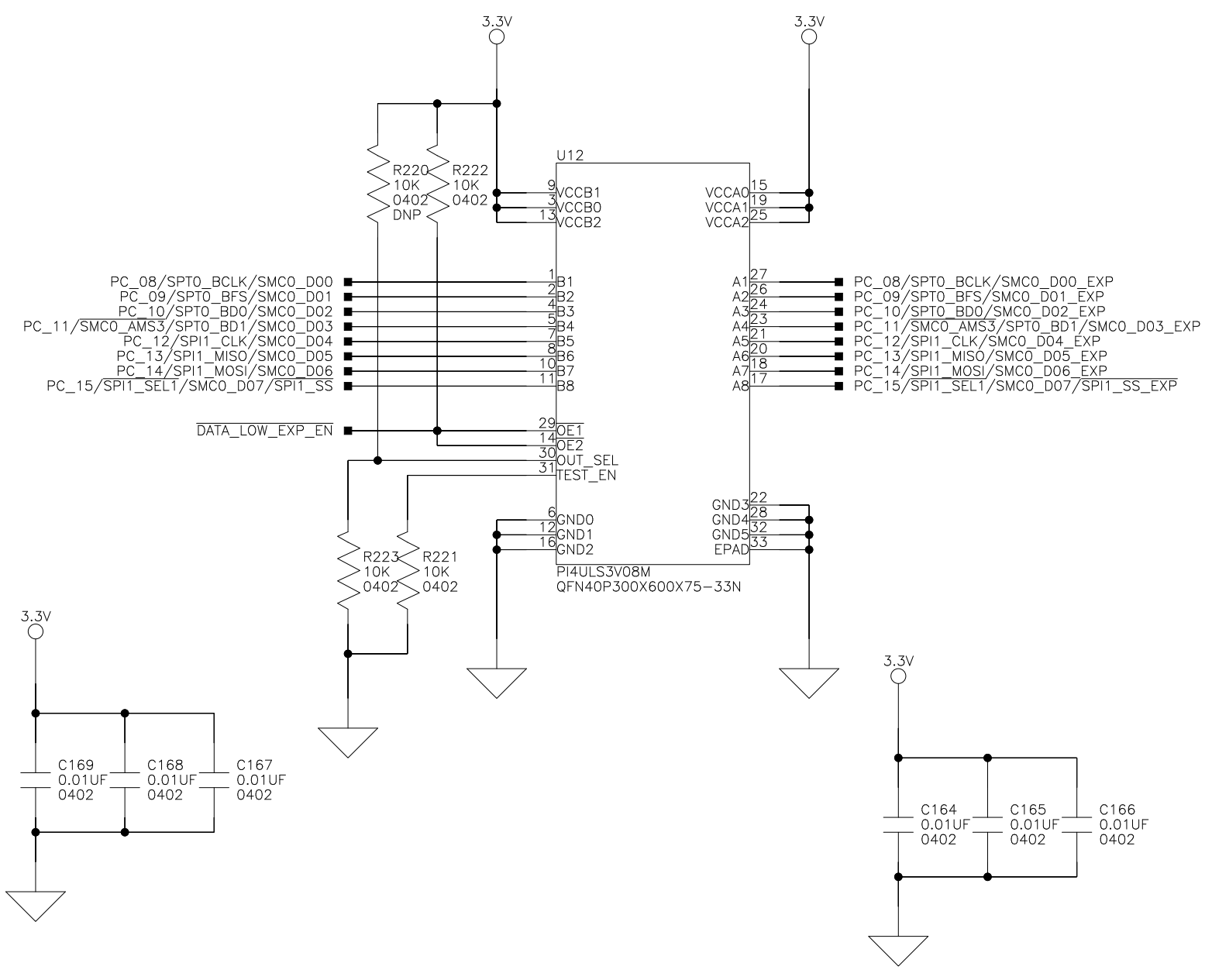



SOFTCONFIG

TWI address 0100 010x where x is the R/W bit. Read = 1, Write = 0

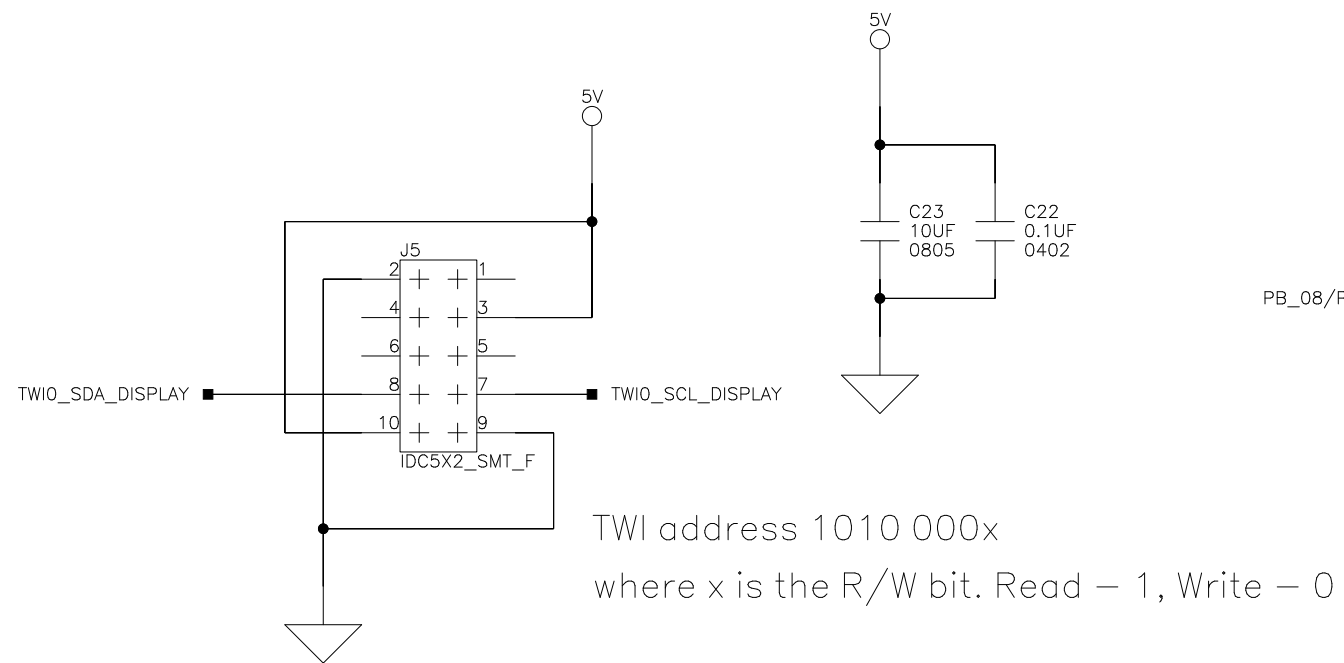


 ANALOG DEVICES		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD
Title ADSP-CM408F EZ-KIT MEMORY AND SOFTCONFIG		
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Date 08/26/2015	Sheet 5 of 14	

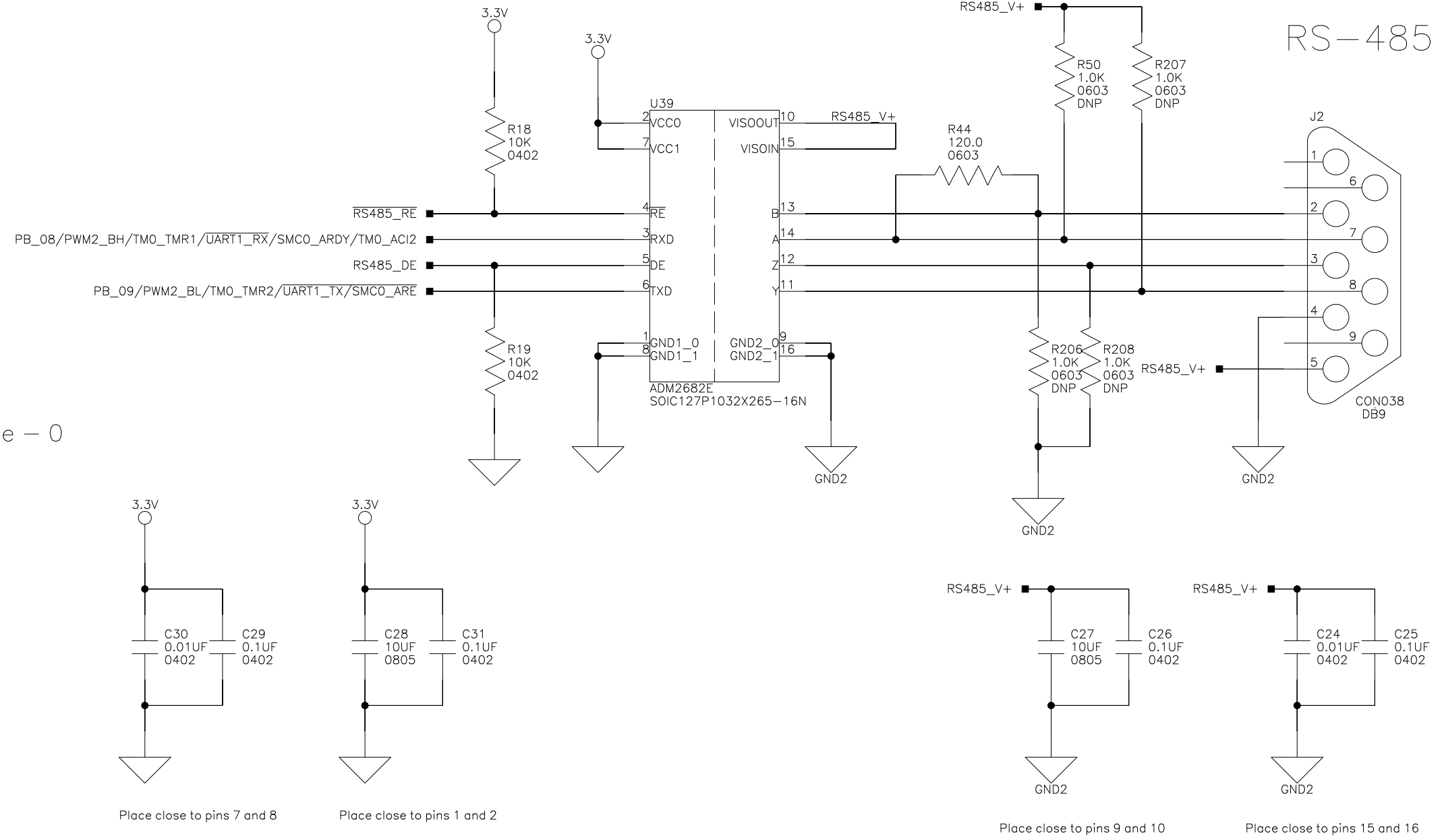
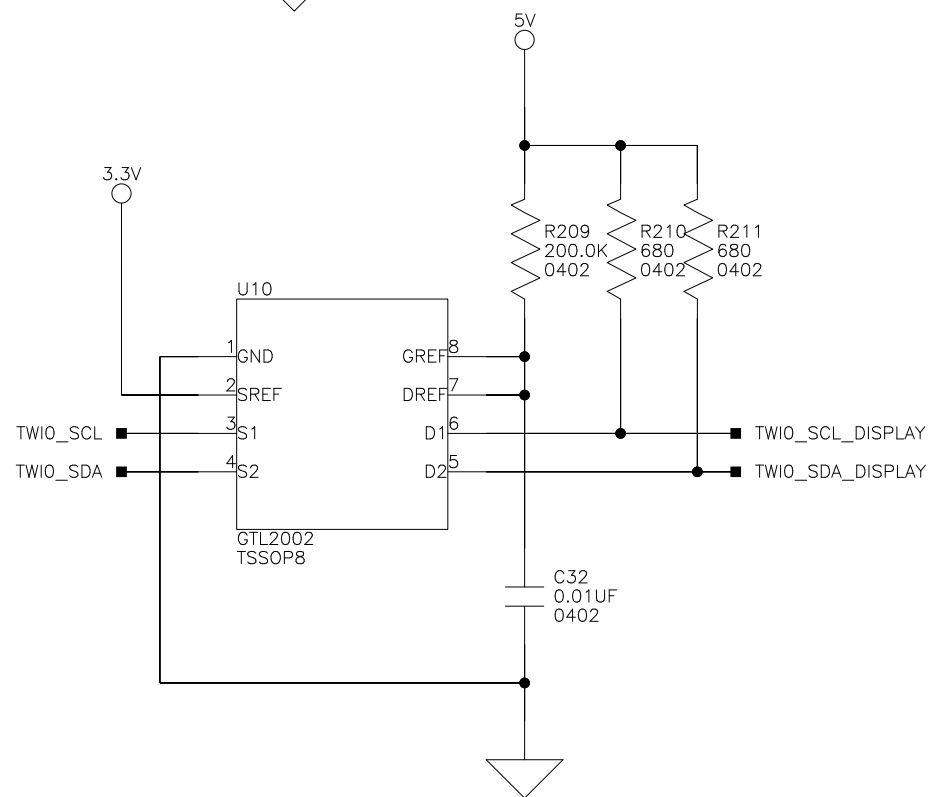


		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT SOFTCONFIG	
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20 X 2 Character Display



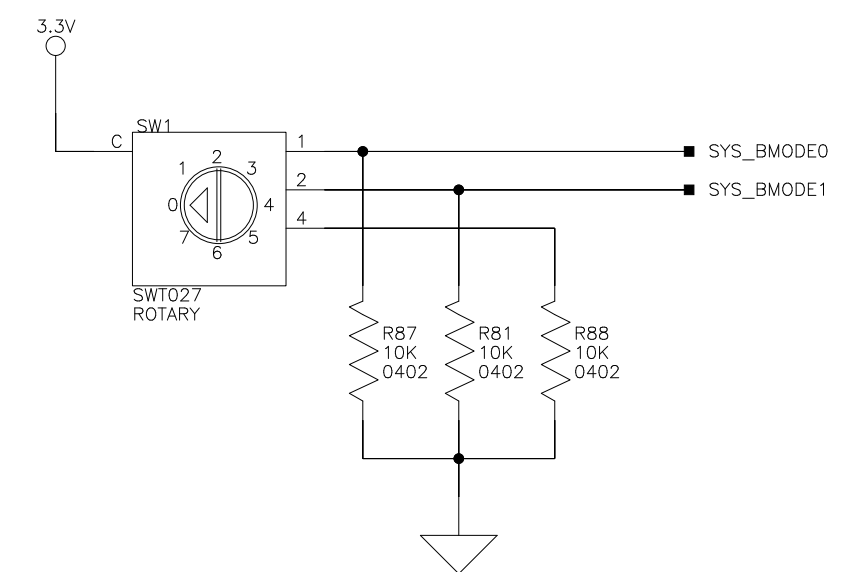
TWI address 1010 000x
where x is the R/W bit. Read = 1, Write = 0

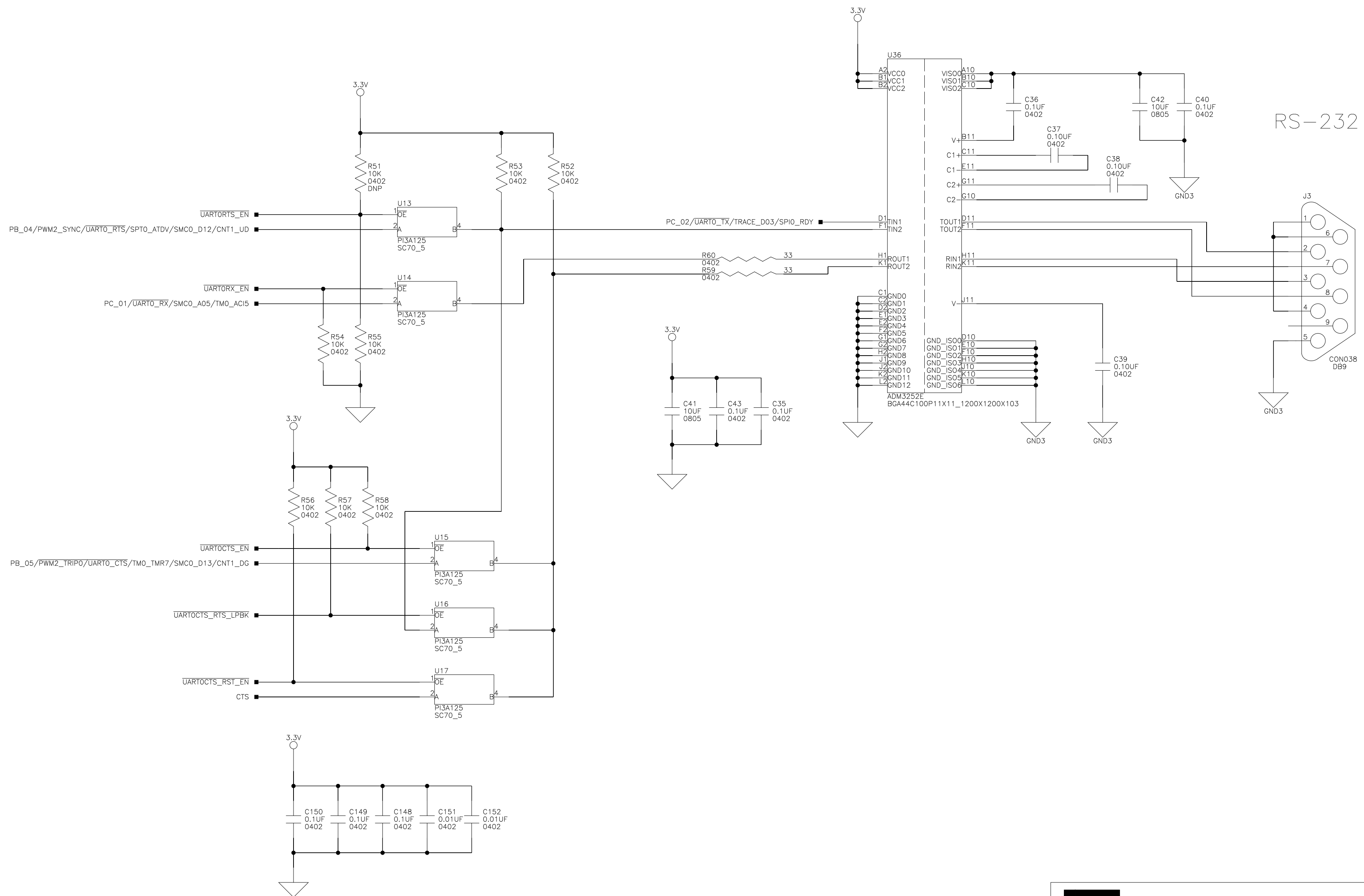


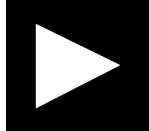
BOOT MODE SWITCH (SW1)

BOOT MODE (1:0)	
00	No Boot
01	SPI Master Boot (internal SPI2)
10	SPI Slave Boot (SPI0)
11	UART Boot (UART0)

BOOT MODE





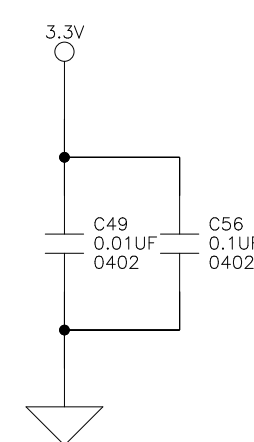
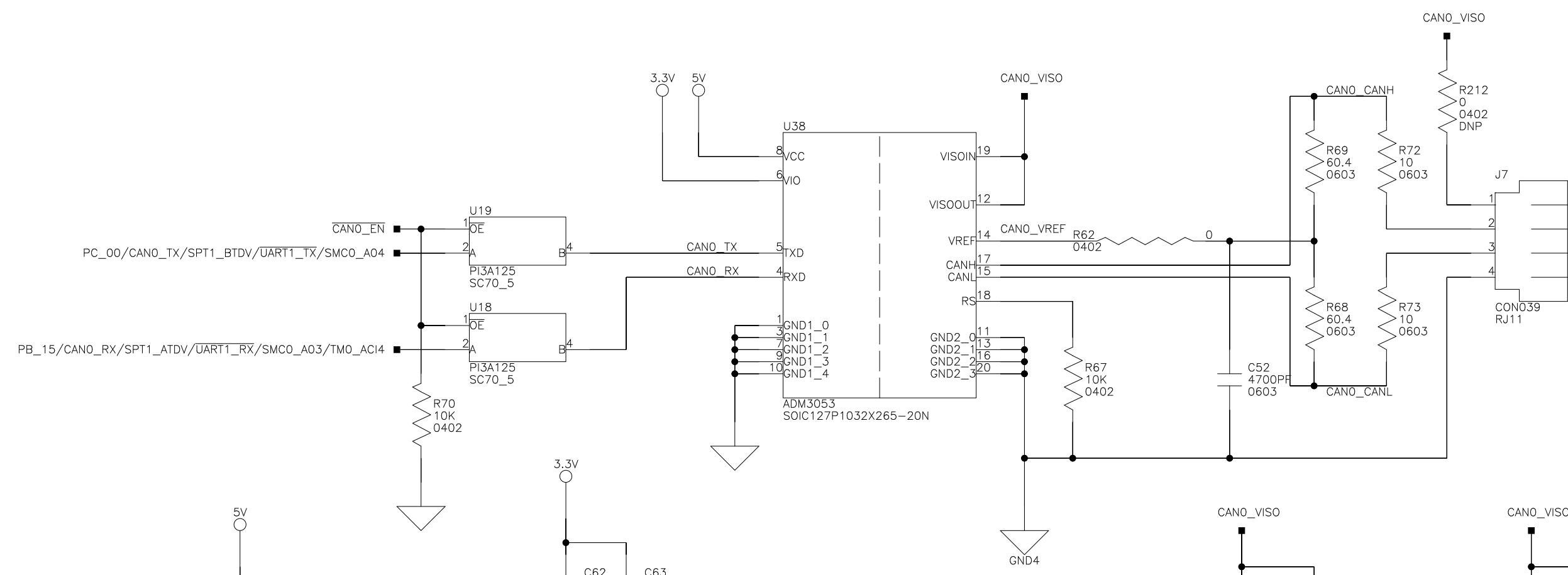
 ANALOG DEVICES		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT RS-232	
Size C	Board No. A0341-2012	Rev 1.0	
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A

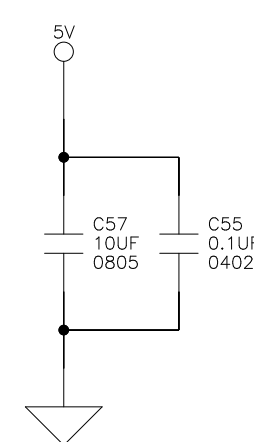
B

C

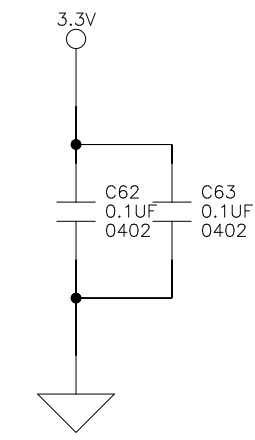
D



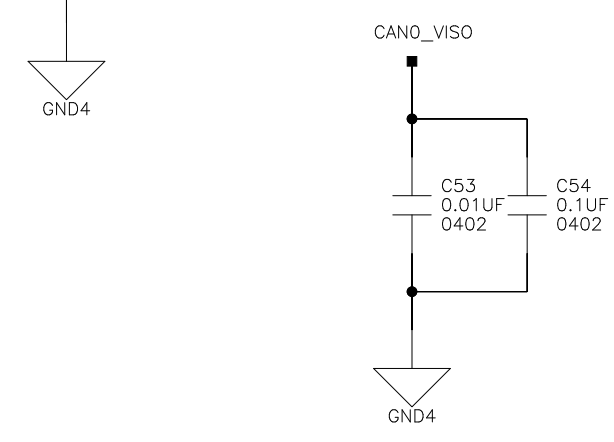
Place between pins 6 and 7



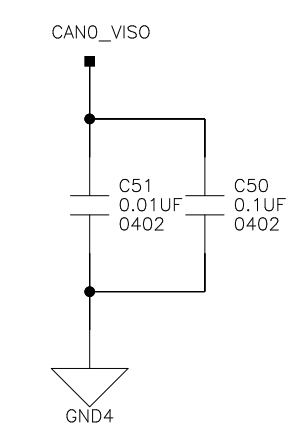
Place between pins 8 and 9



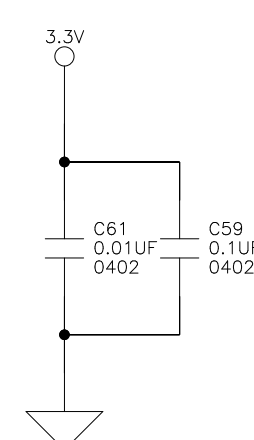
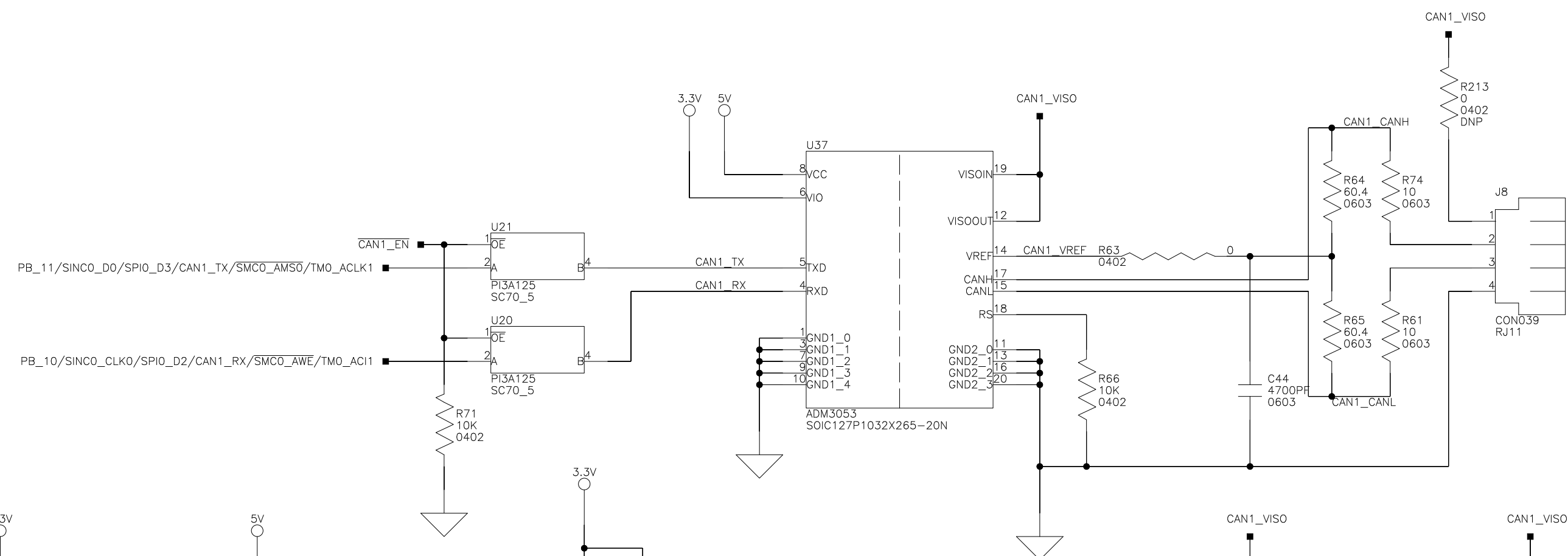
CAN0



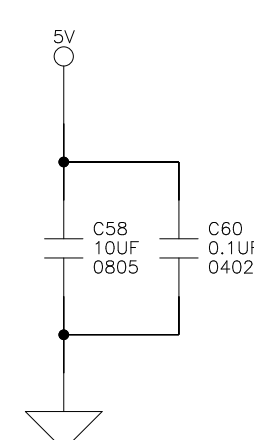
Place between pins 11 and 12



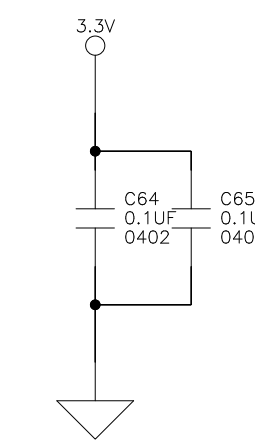
Place between pins 19 and 20



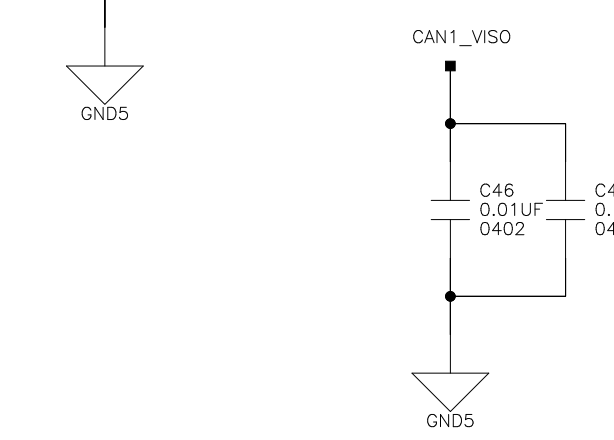
Place between pins 6 and 7



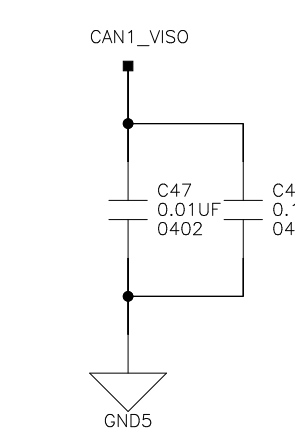
Place between pins 8 and 9




CAN1



Place between pins 11 and 12



Place between pins 19 and 20

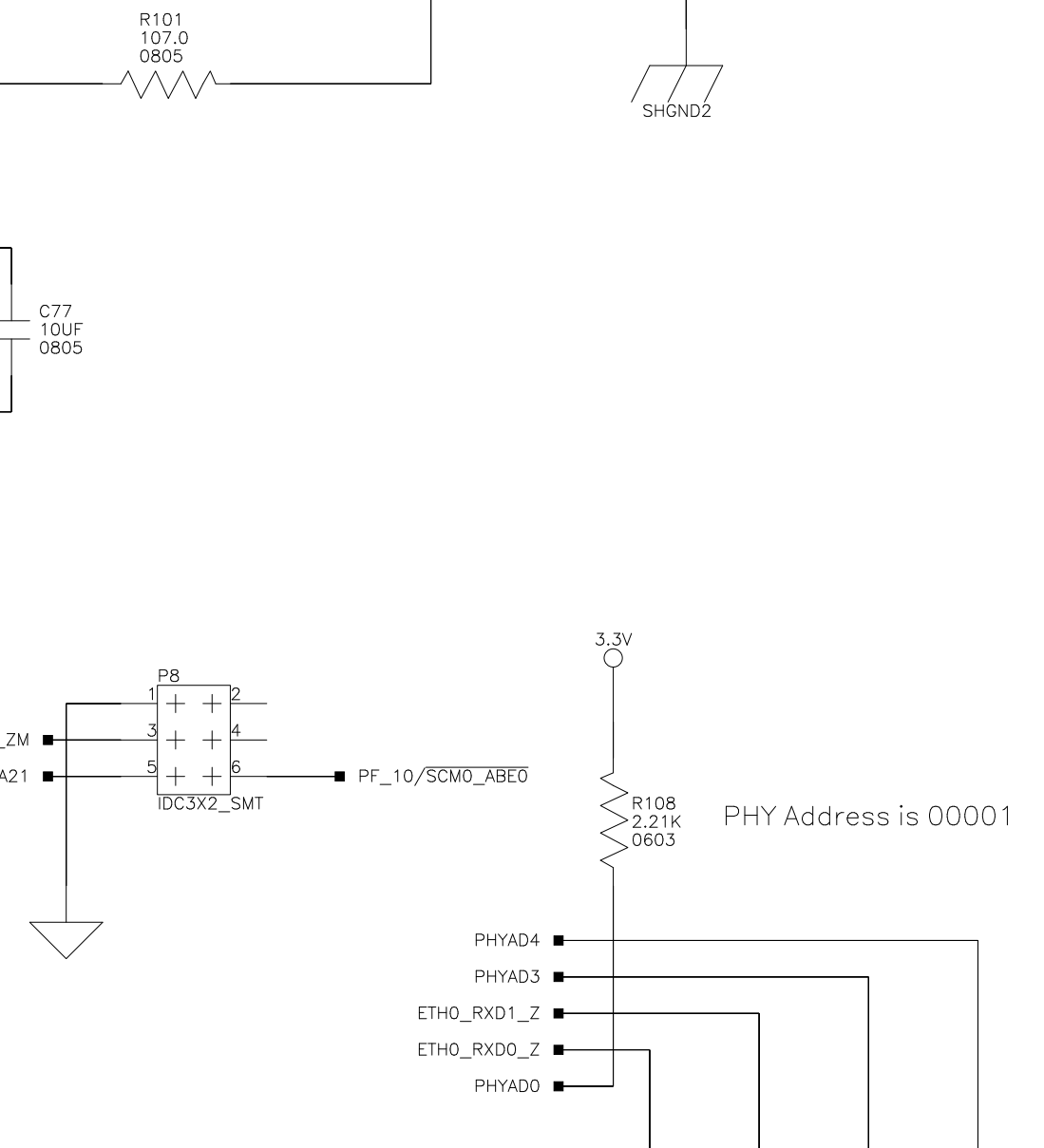
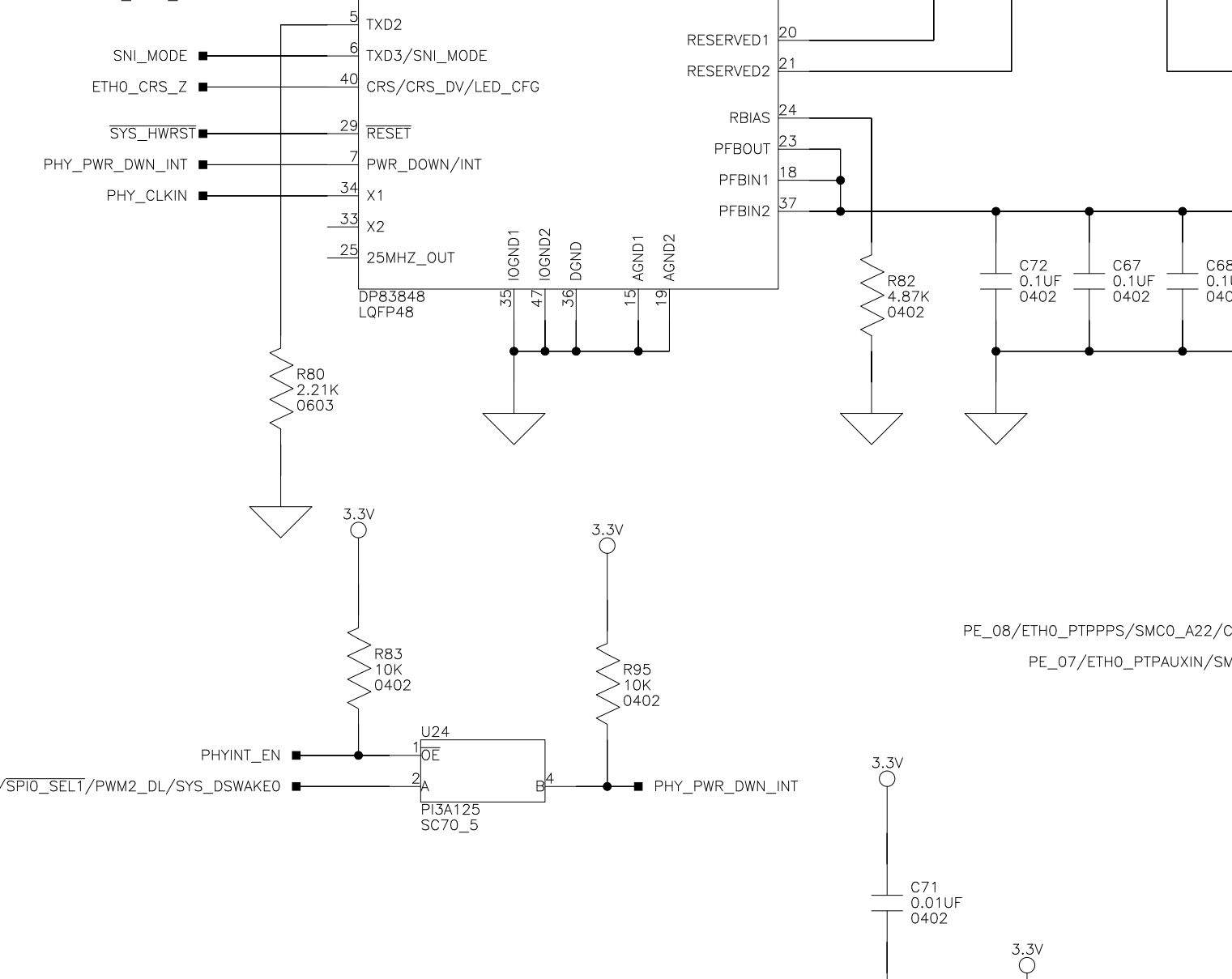
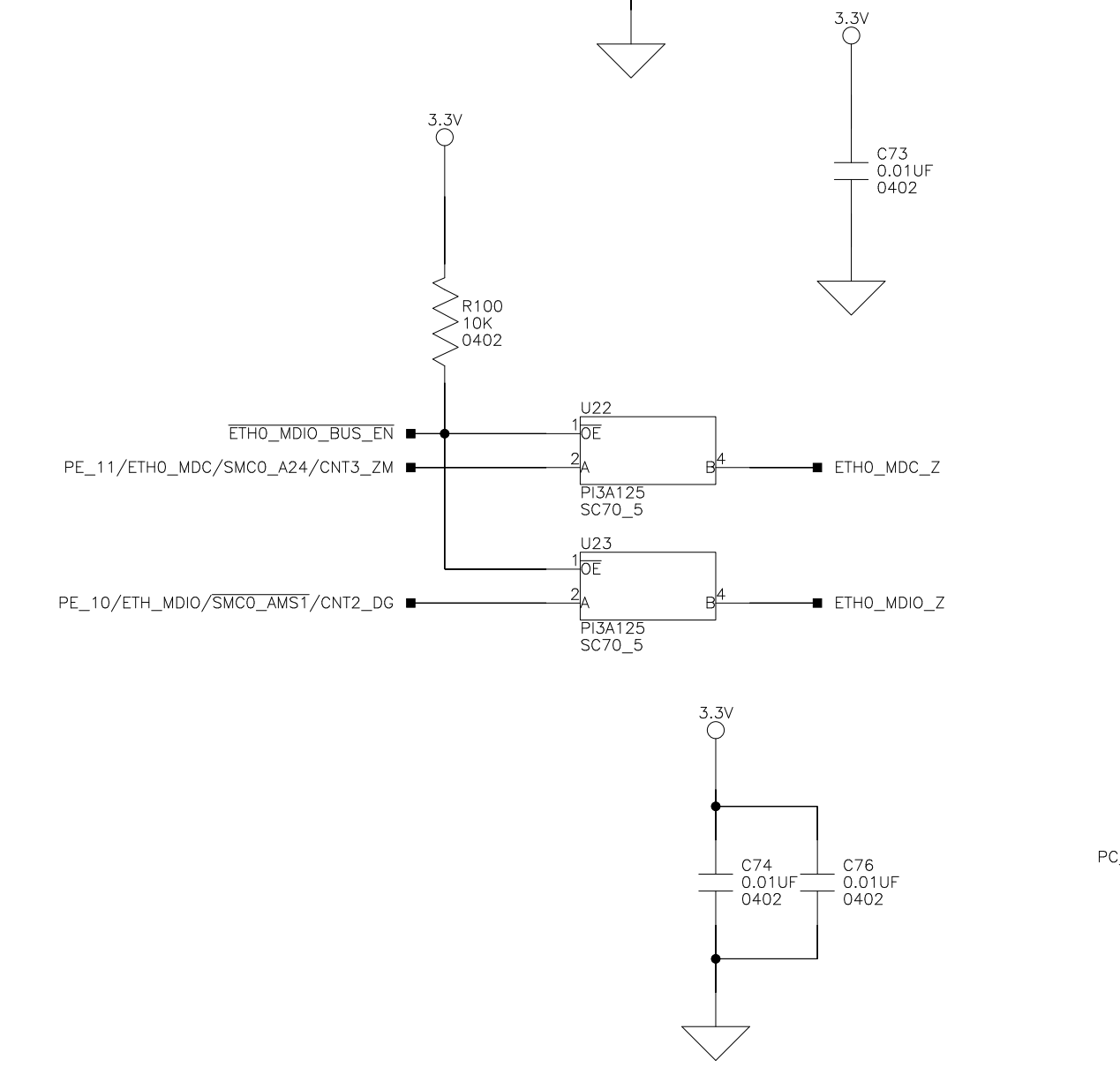
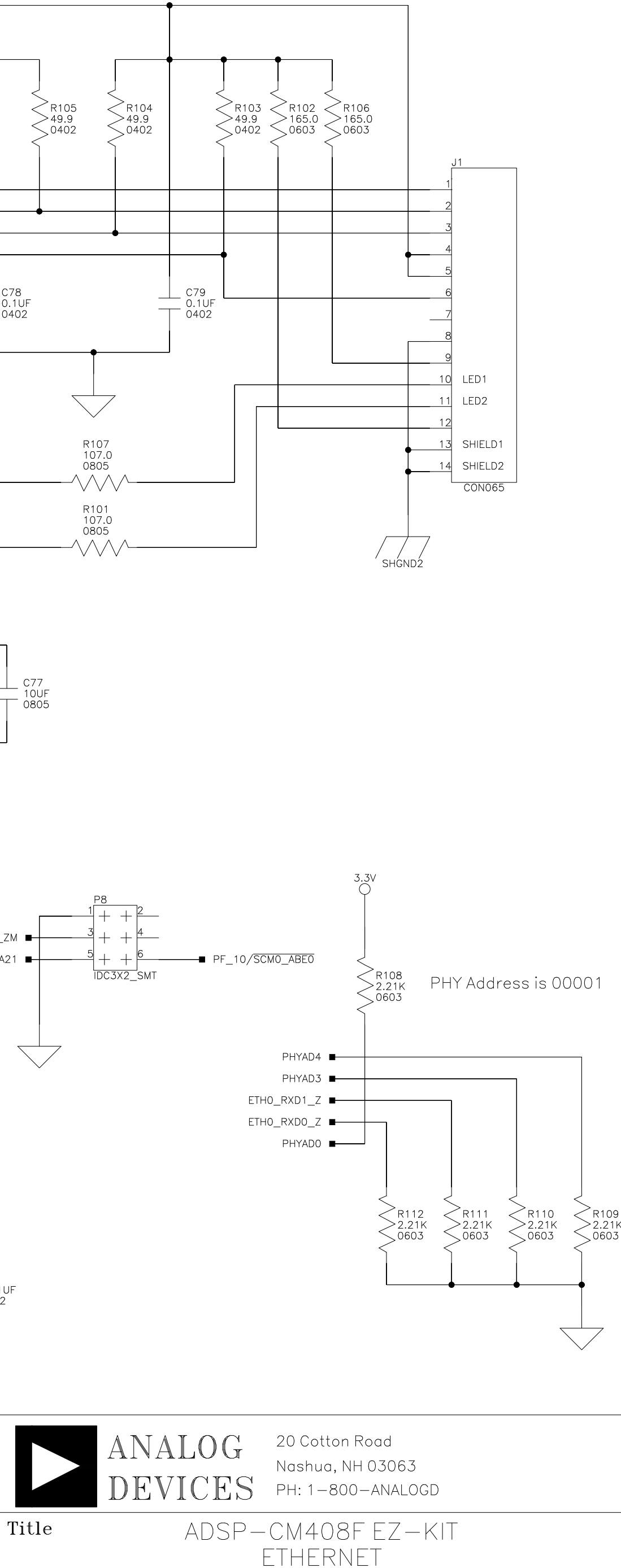
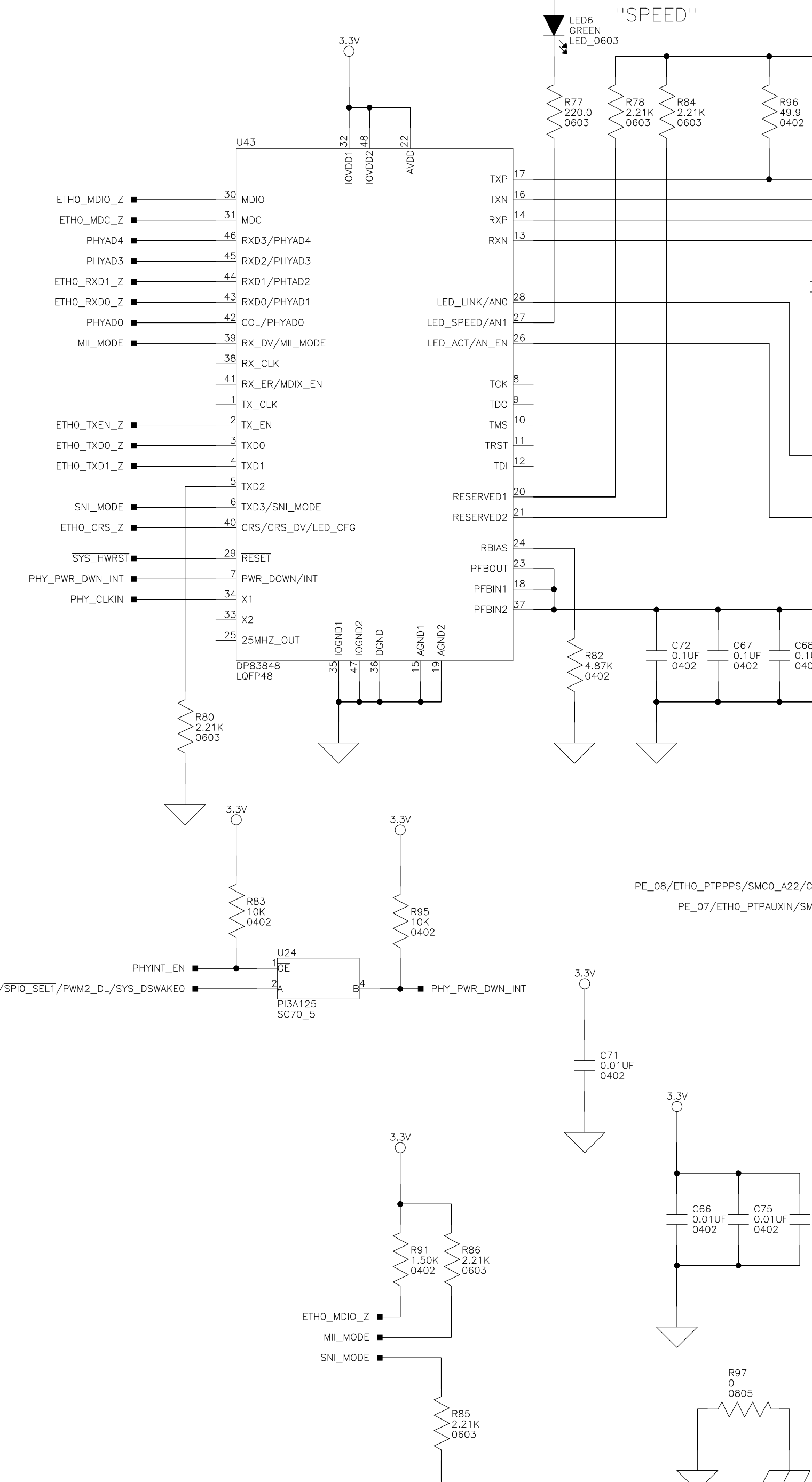
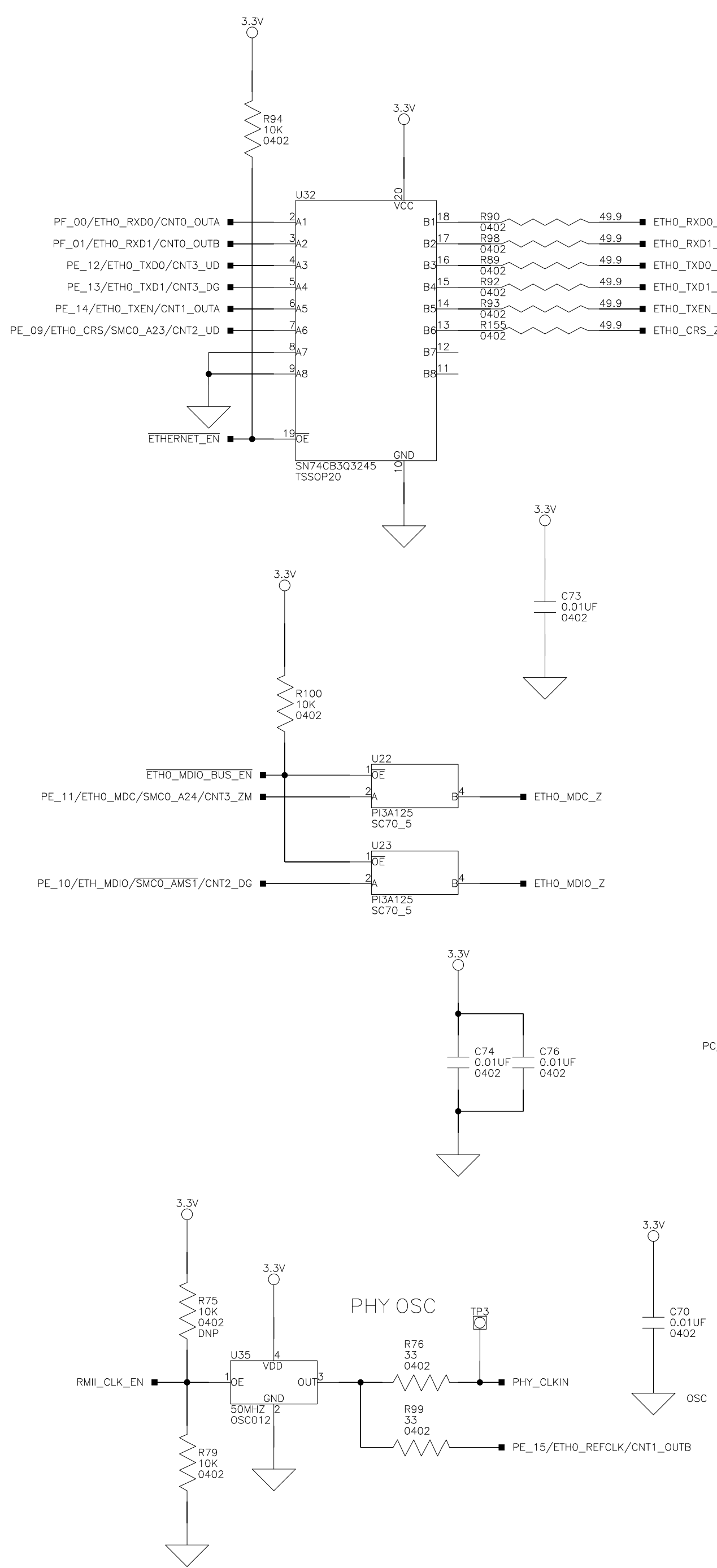
		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT CAN0 AND CAN1	
Size C	Board No. A0341-2012	Rev 1.0	
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A

B

C

D



		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT ETHERNET	
Size C	Board No. A0341-2012	Rev 1.0	
Date 08/26/2015	Sheet 10 of 14		

1

1

2

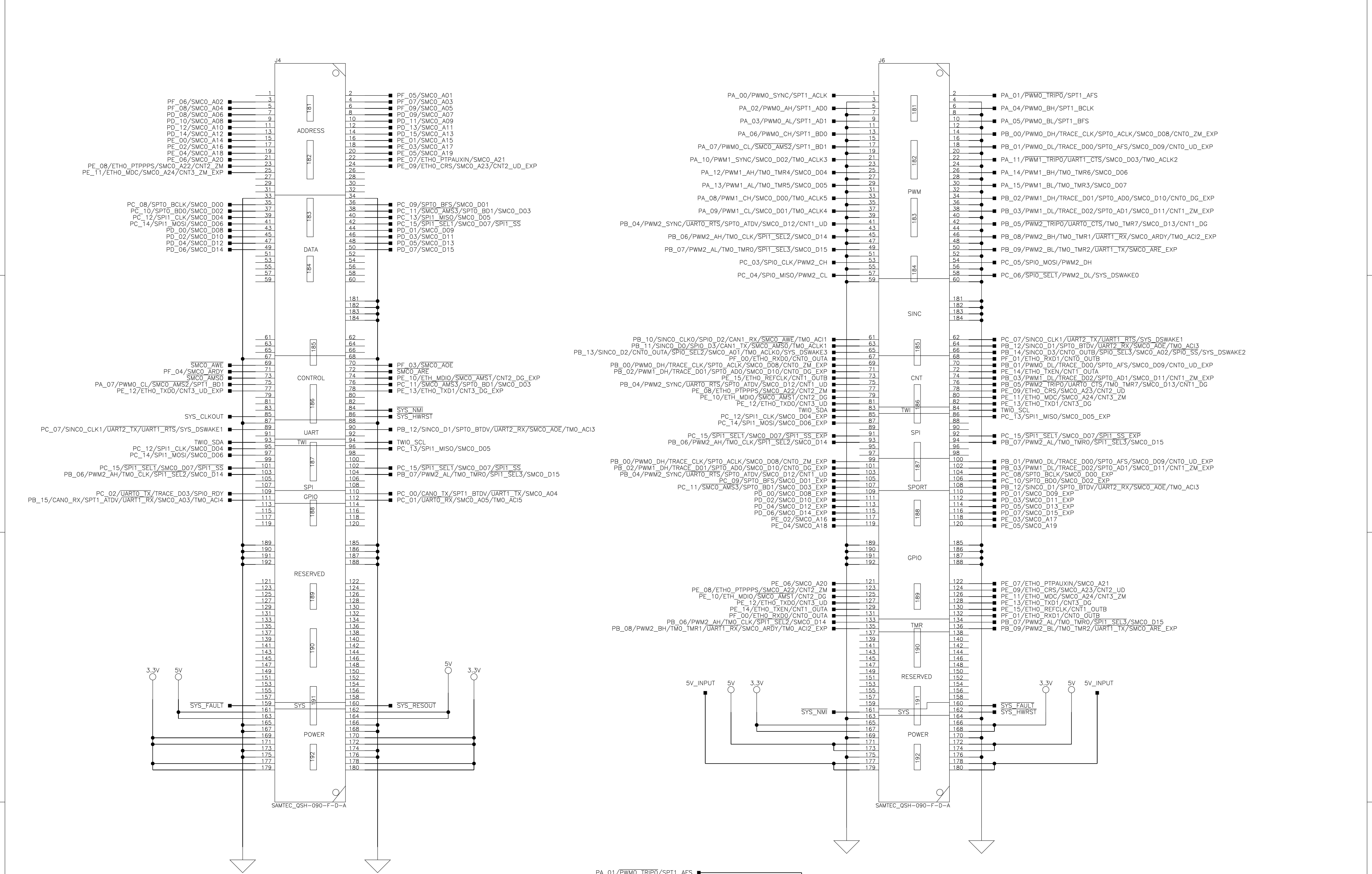
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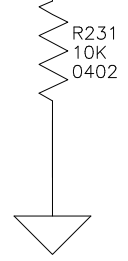
3

4

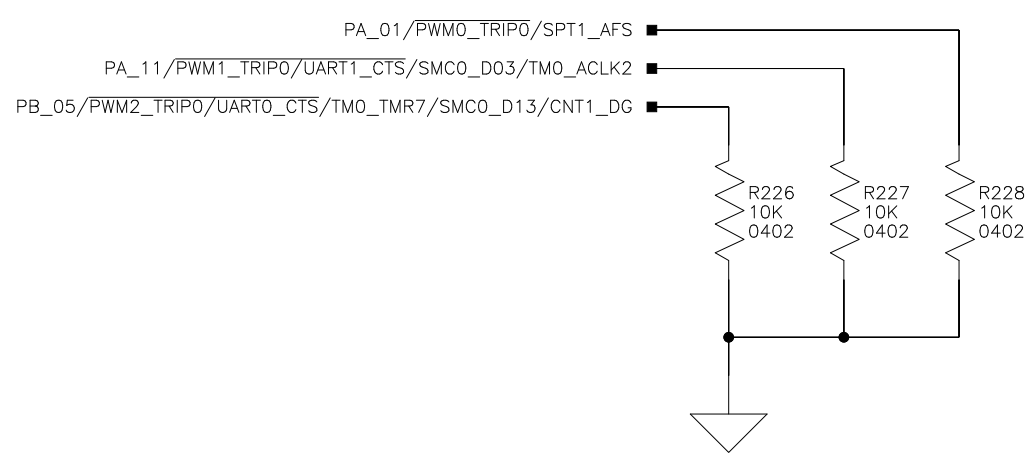
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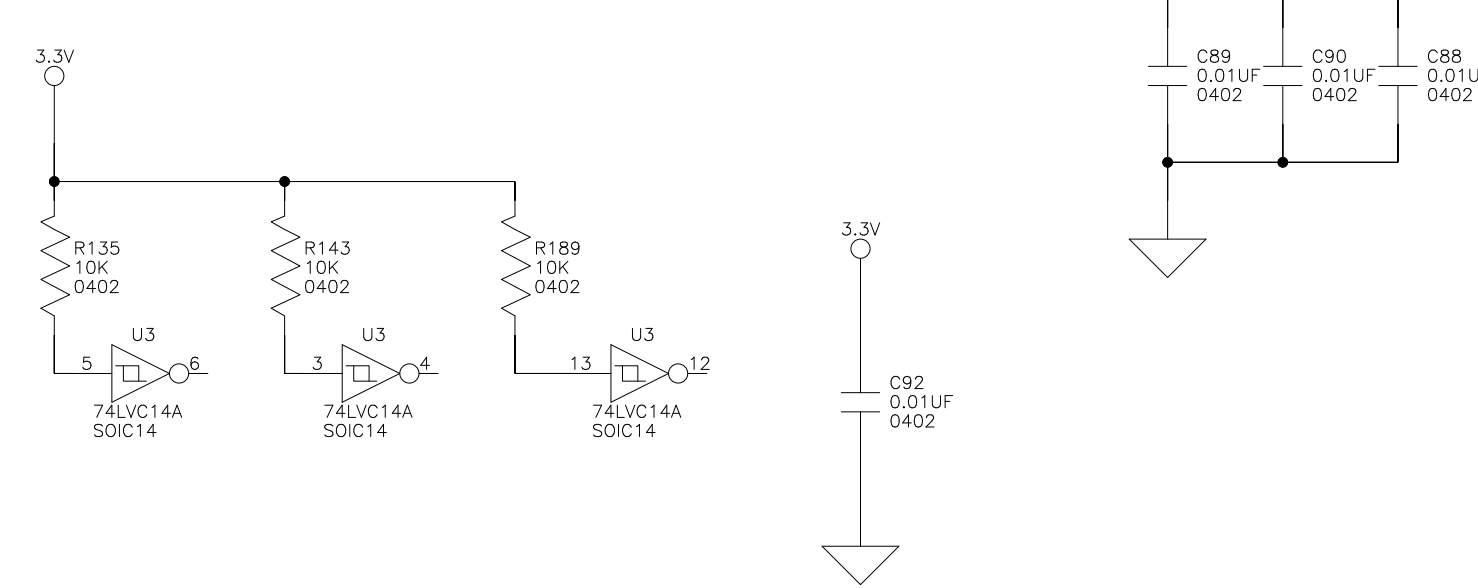
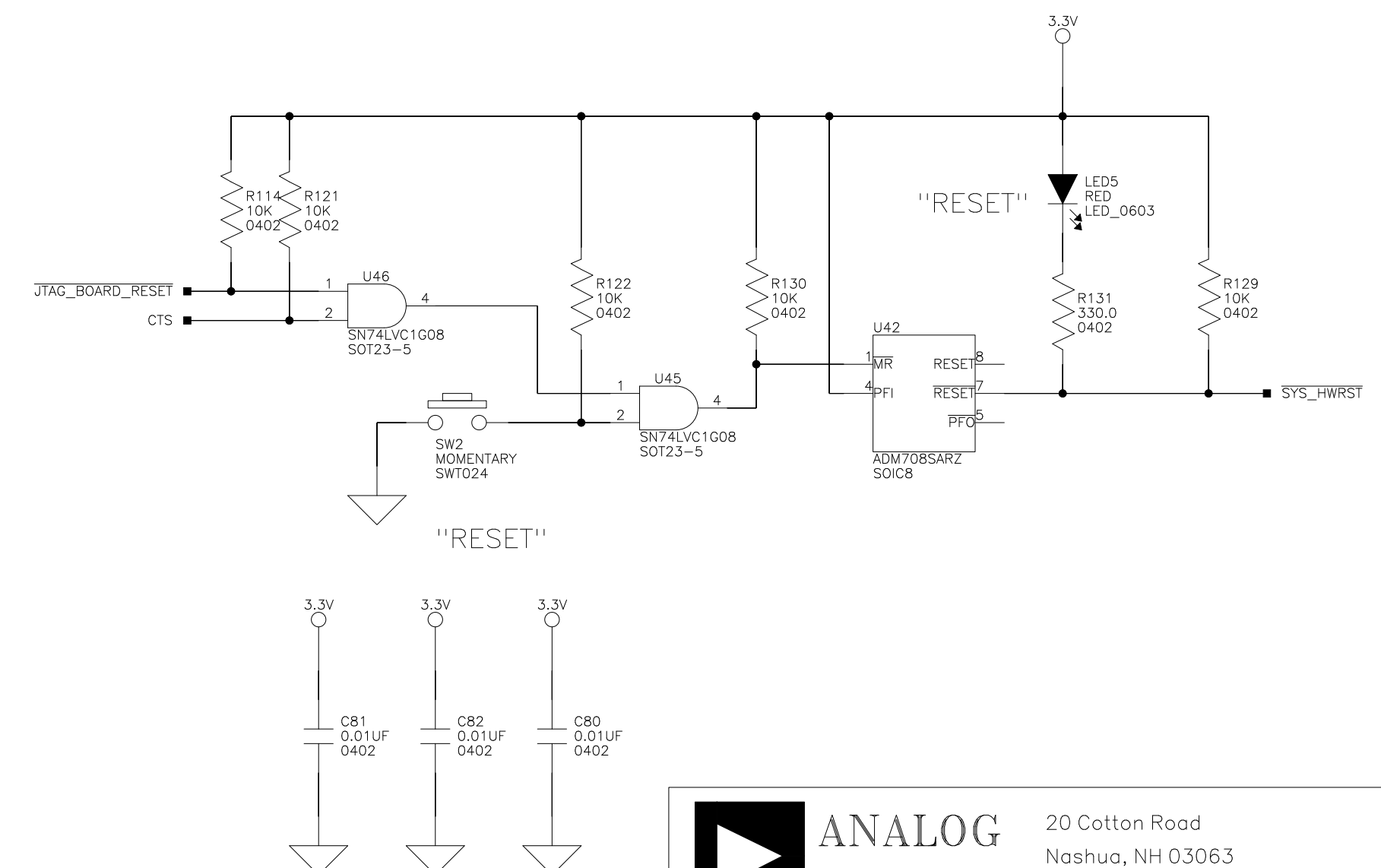
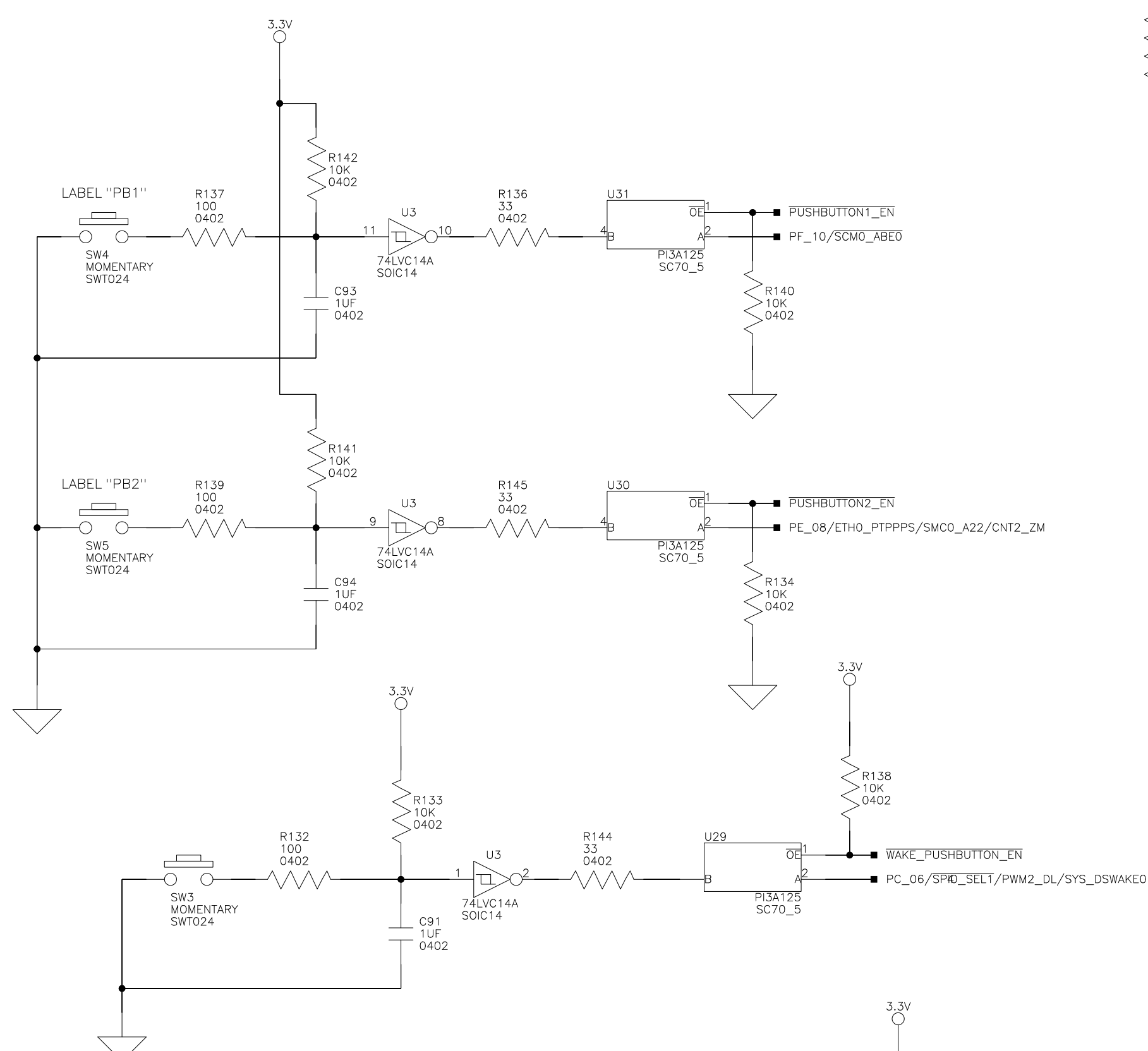
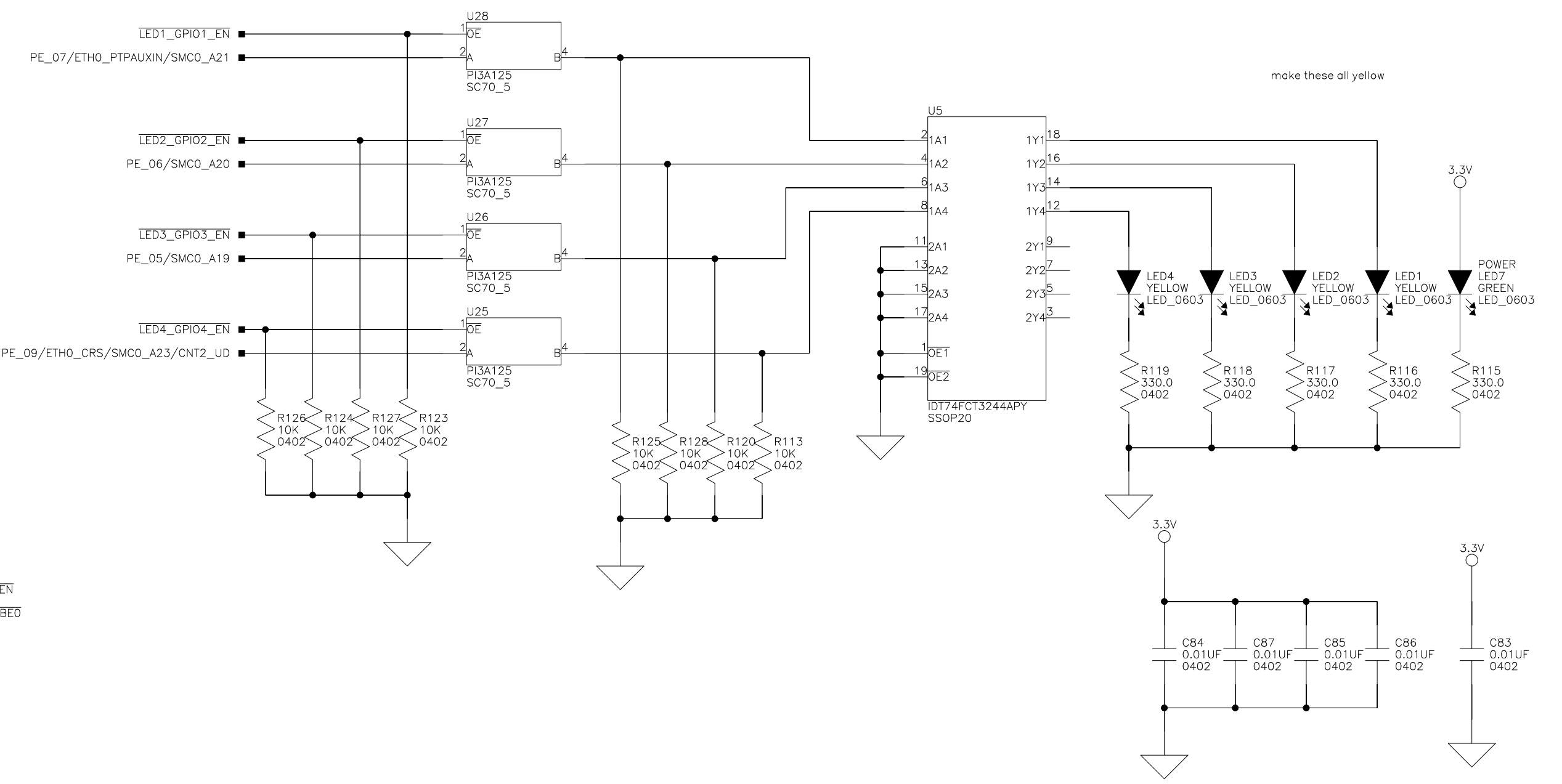
ASYNCH CONN



PWM CONN

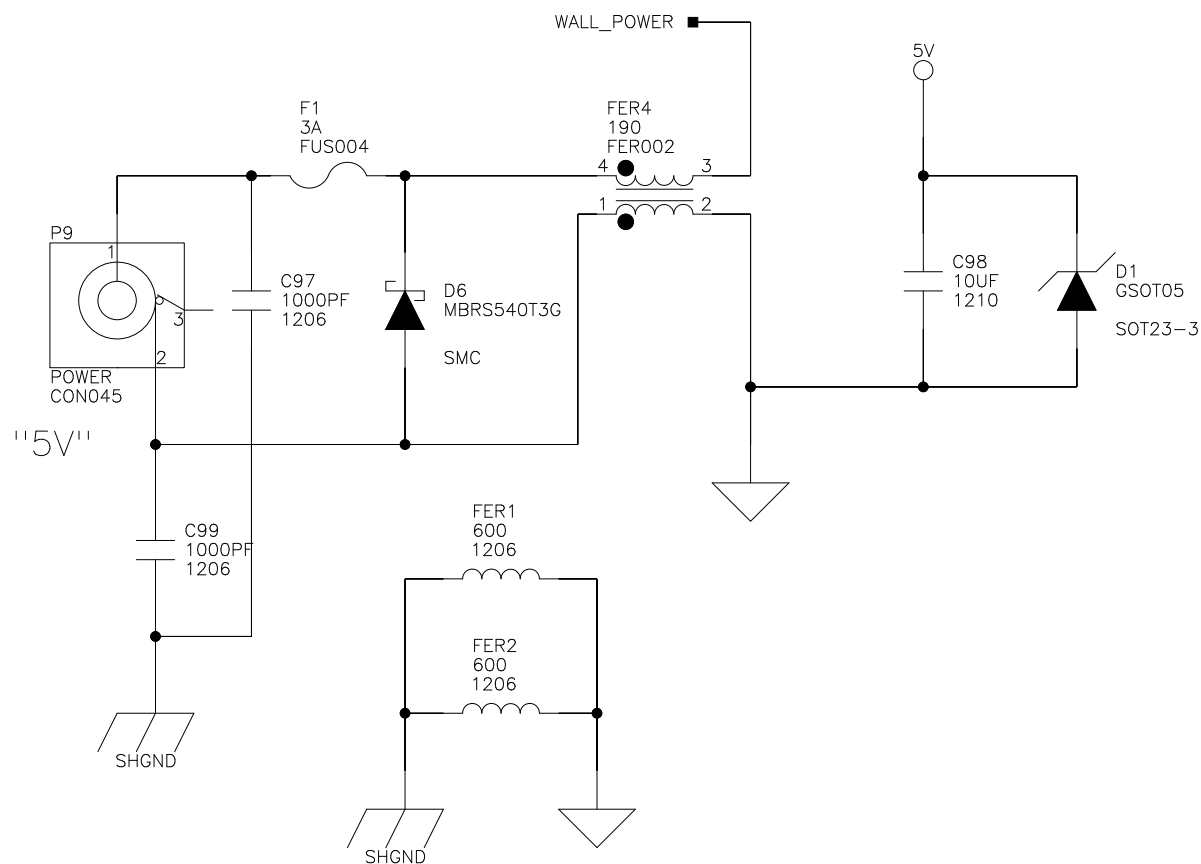
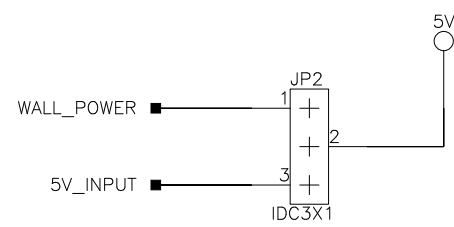


		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		Title ADSP-CM408F EZ-KIT EXPANSION CONNECTORS	
Size C	Board No. A0341-2012	Rev 1.0	
Date 08/26/2015	Sheet 11 of 14		

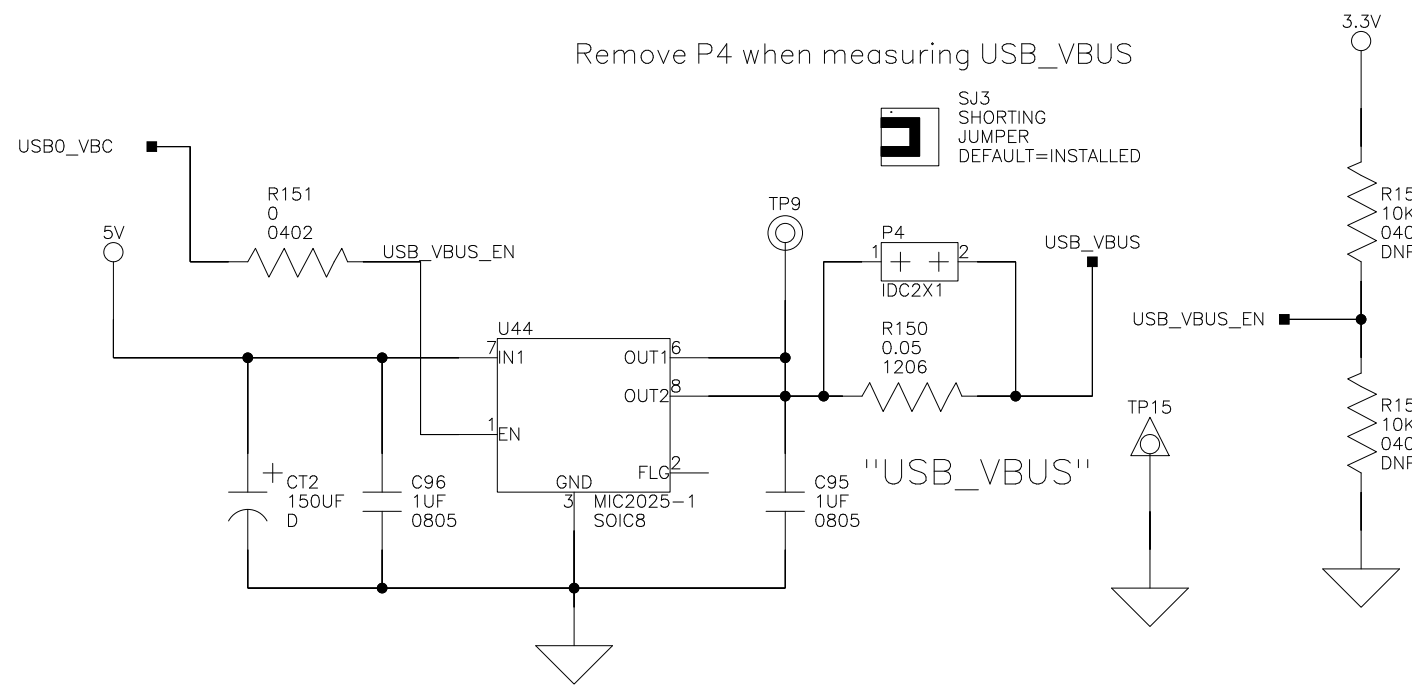


		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD
Title ADSP-CM408F EZ-KIT LEDS, PUSHBUTTONS AND RESET		
Size C	Board No. A0341-2012	Rev 1.0
Date 08/26/2015	Sheet 12 of 14	

SJ7 SHORTING JUMPER DEFAULT=1&2

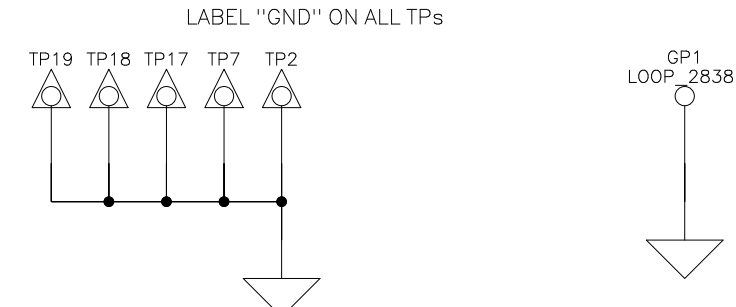


Remove P4 when measuring USB_VBUS



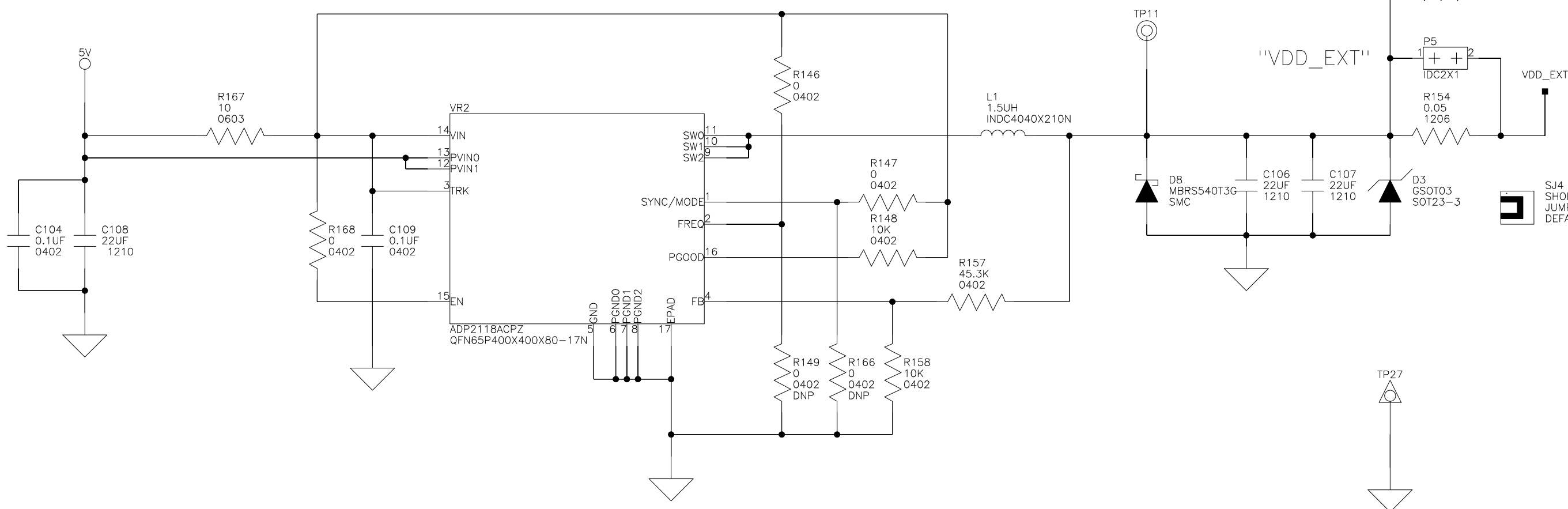
SJ3 SHORTING JUMPER DEFAULT=INSTALLED

GND Test Points are scattered on PCB for Test Measurement Purposes.



SJ8 SHORTING JUMPER DEFAULT=INSTALLED

3.3V @ 2A



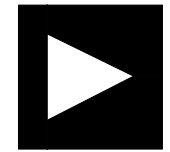
"3.3V"

Remove P7 when measuring VDD_EXT

"VDD_EXT"

Remove P5 when measuring 3.3V

SJ4 SHORTING JUMPER DEFAULT=INSTALLED



ANALOG DEVICES

20 Cotton Road
Nashua, NH 03063
PH: 1-800-ANALOGD

Title ADSP-CM408F EZ-KIT POWER

Size C Board No. A0341-2012 Rev 1.0

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