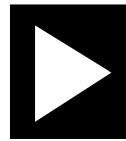
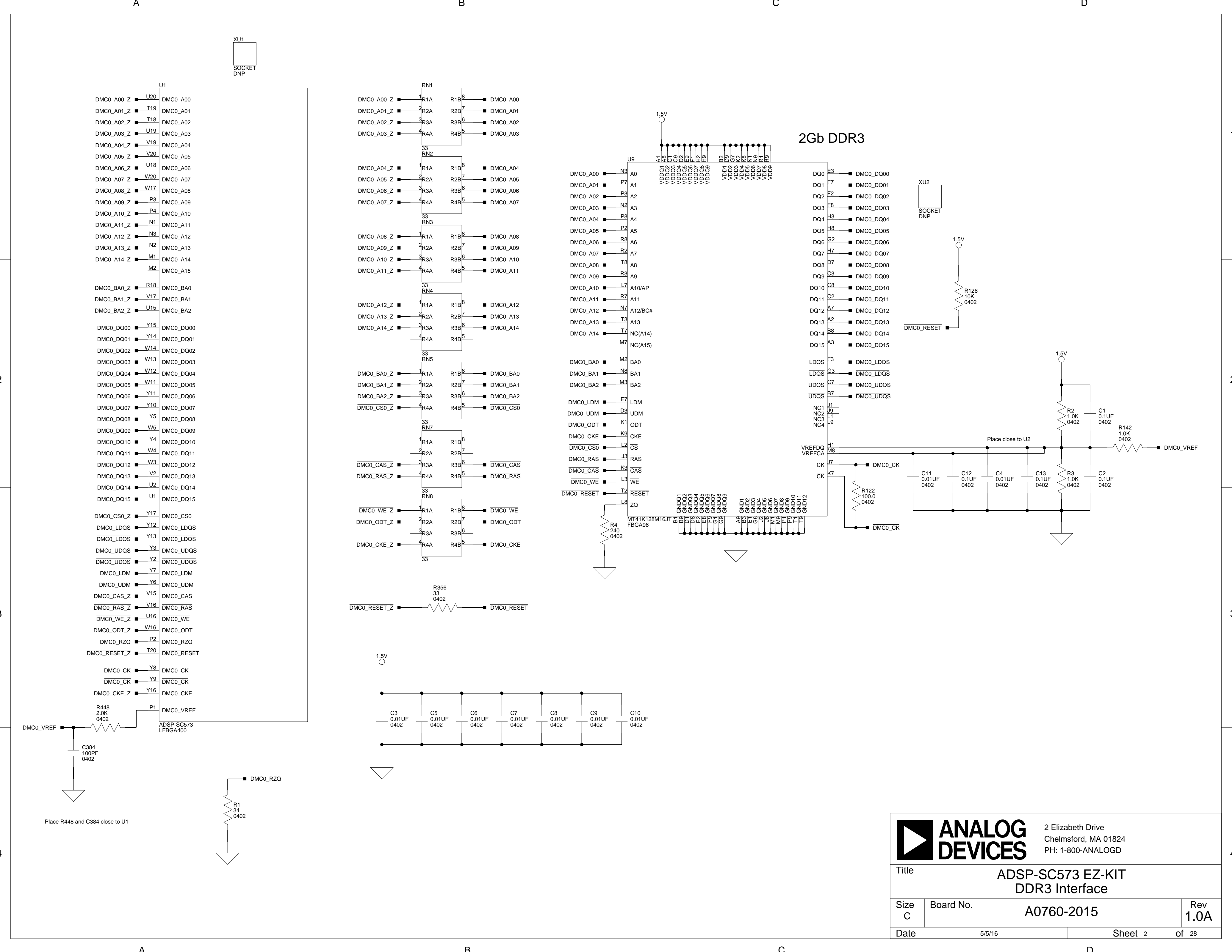



ADSP-SC573 EZ-KIT

Schematic

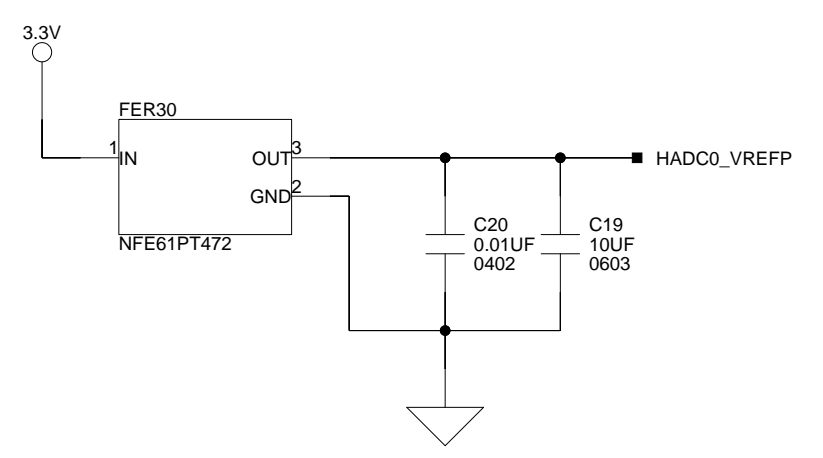
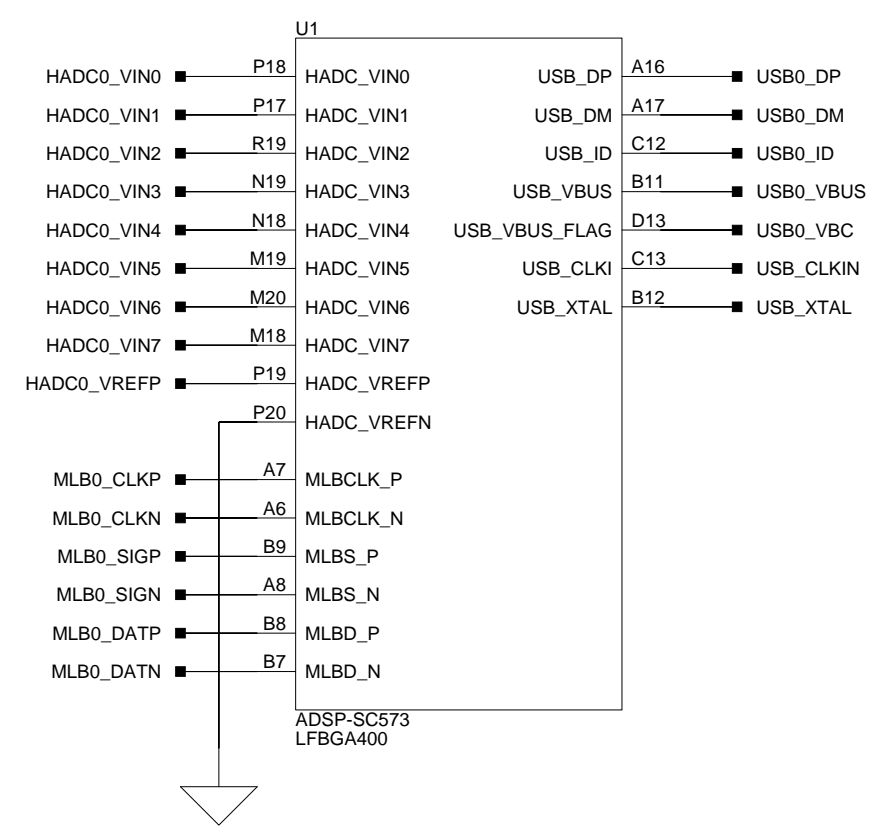
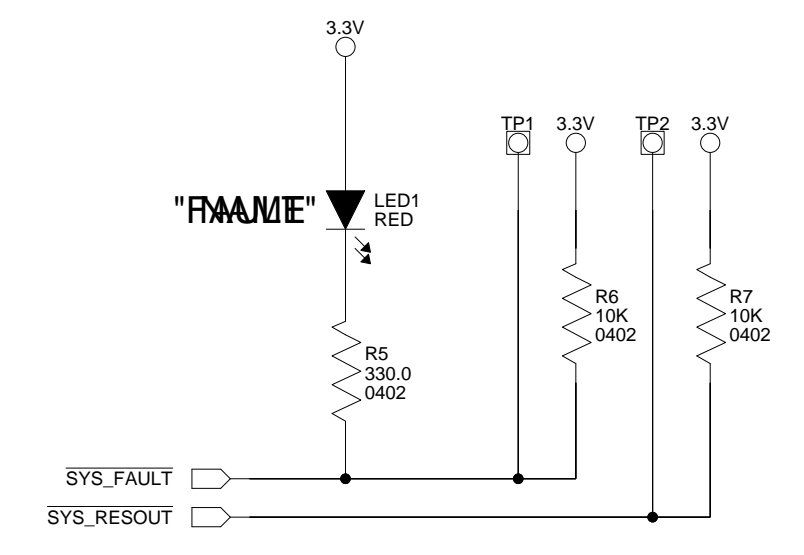
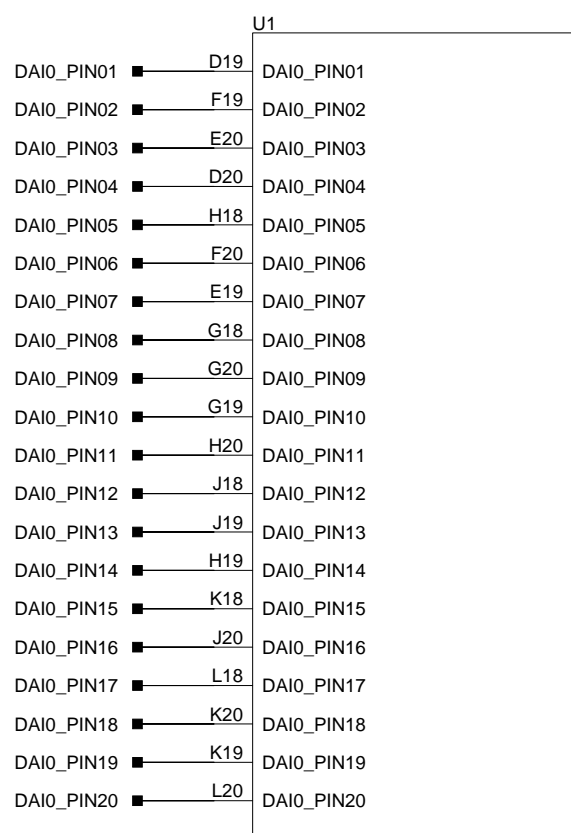
		ANALOG DEVICES		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title		ADSP-SC573 EZ-KIT Title Block			
Size C	Board No.	A0760-2015		Rev	1.0A
Date	5/5/16	Sheet 1		of 28	



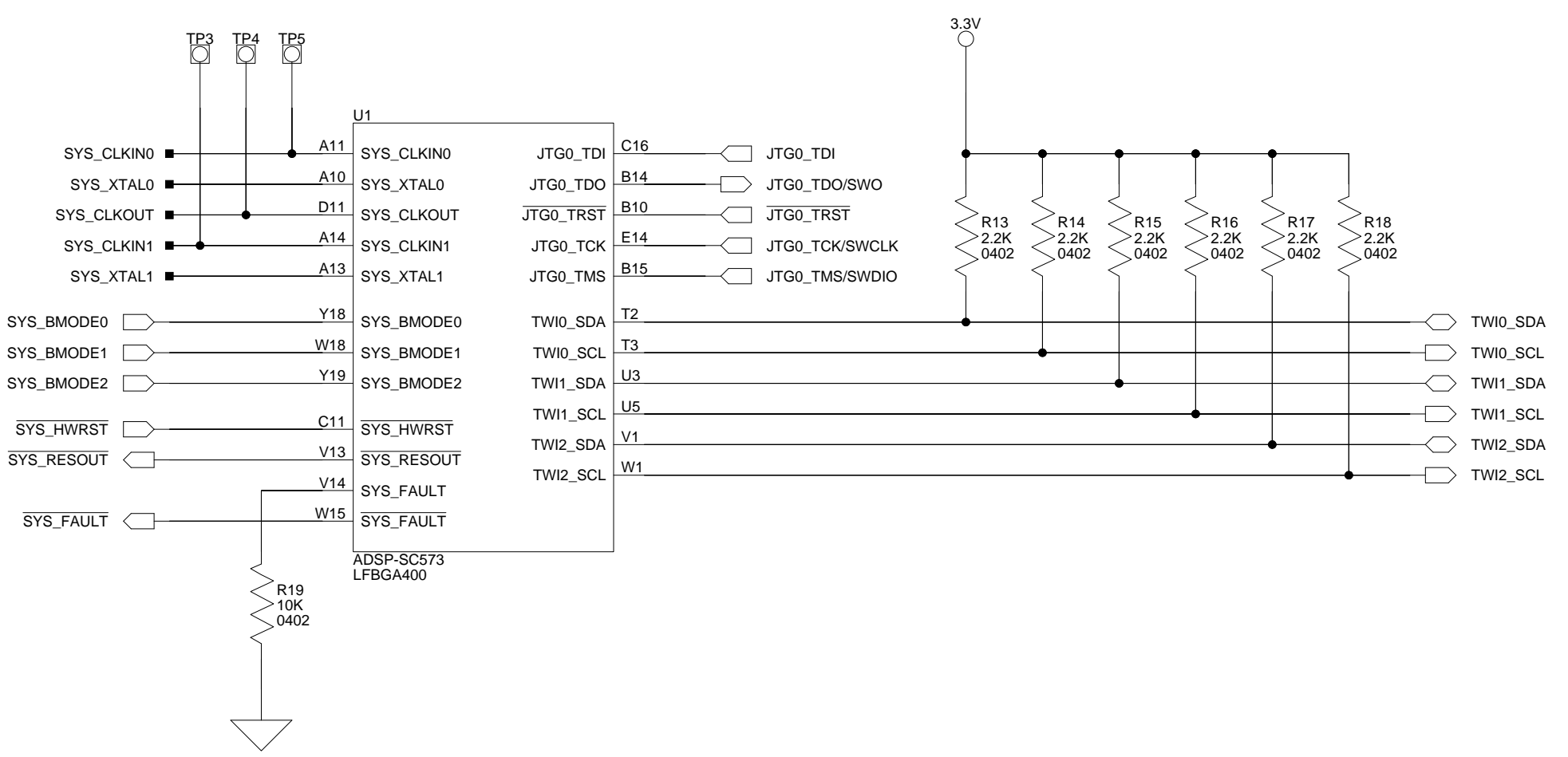
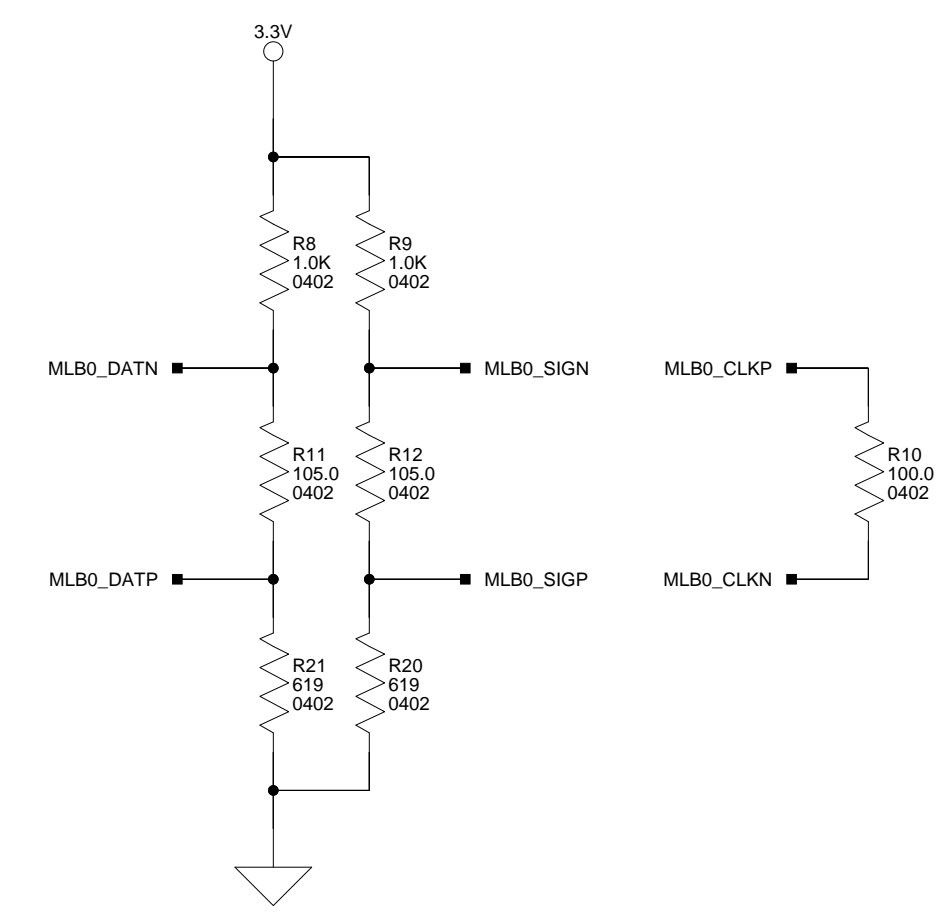
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT DDR3 Interface	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 2 of 28		

Place R448 and C384 close to U1

Place close to U2



MLB signals need to be short and matched trace length.



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT Non-Mux Ports	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 3	of 28	

1

1

2

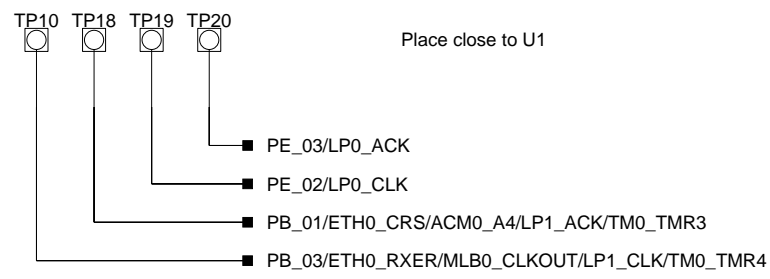
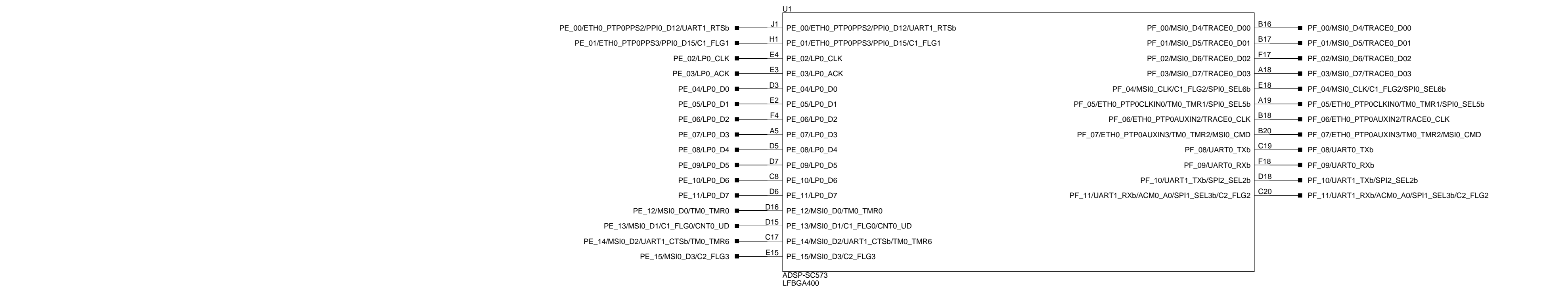
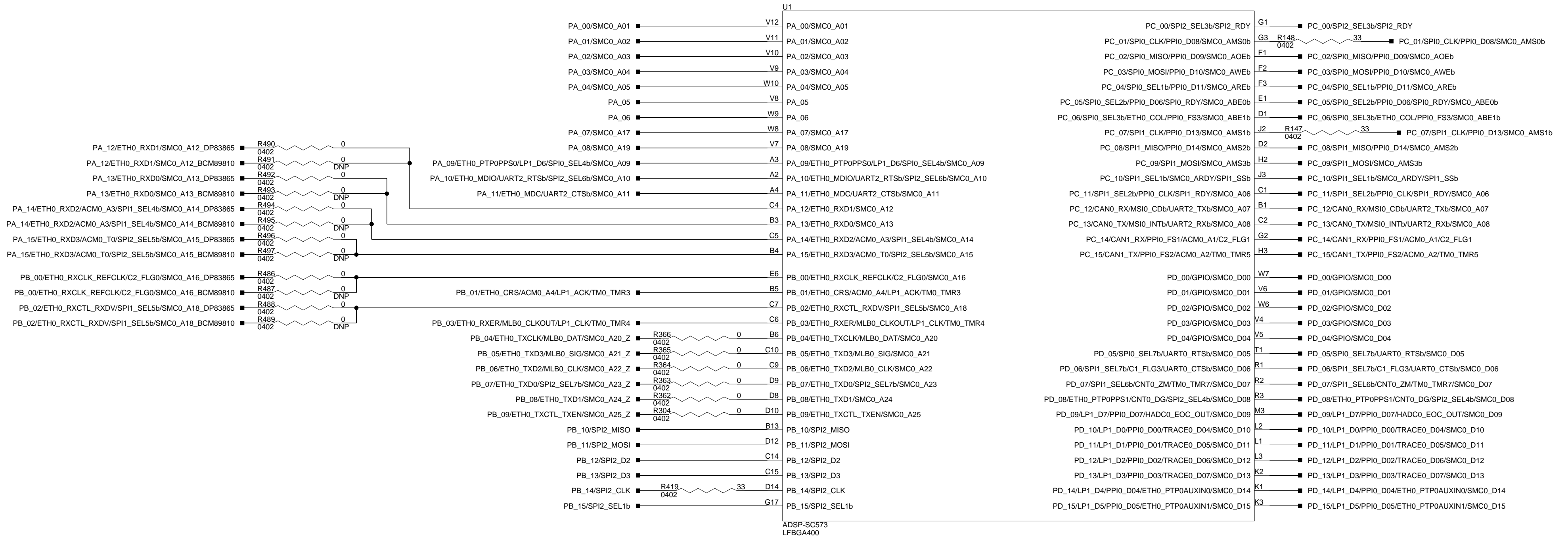
2

3

3

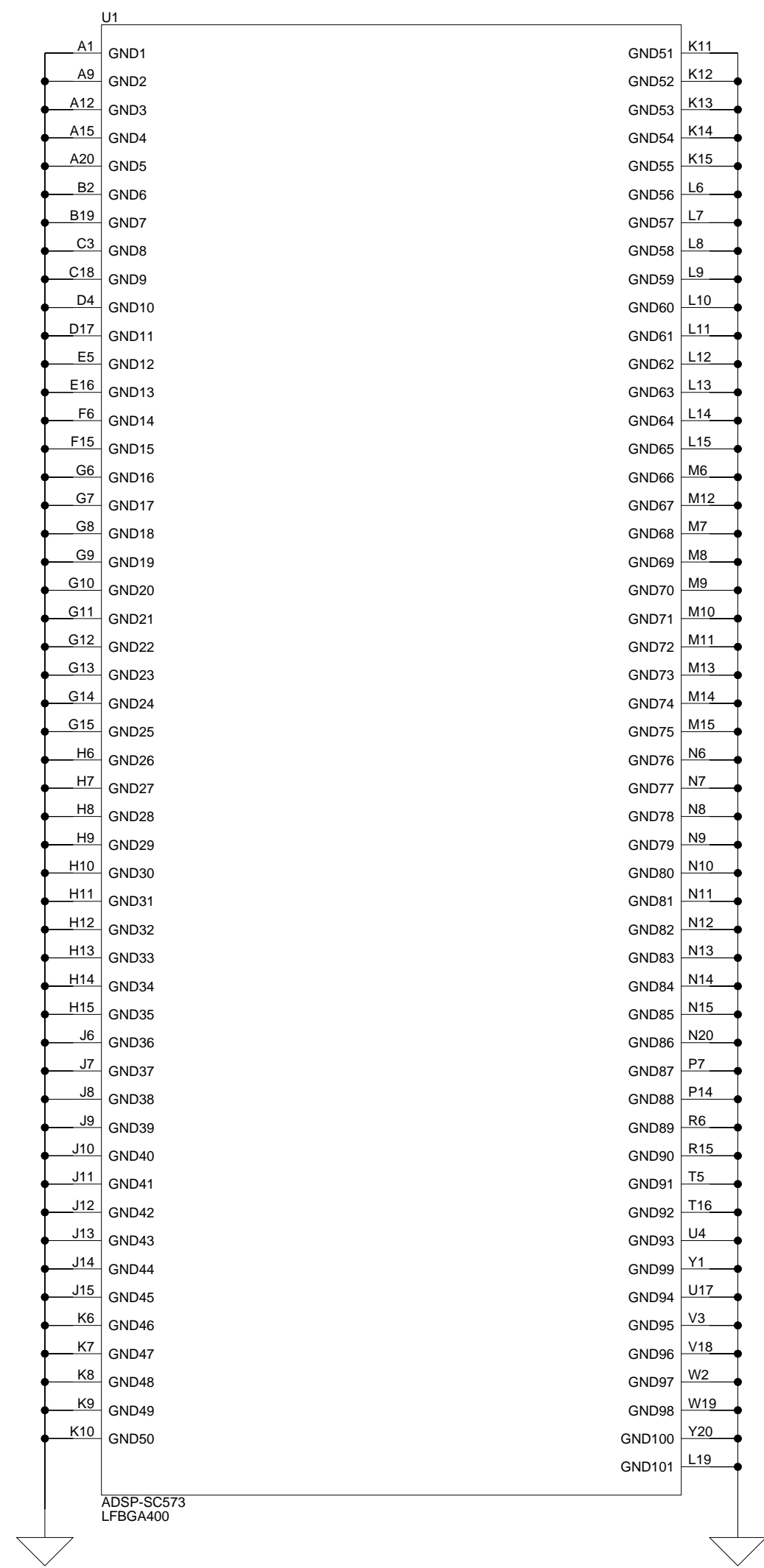
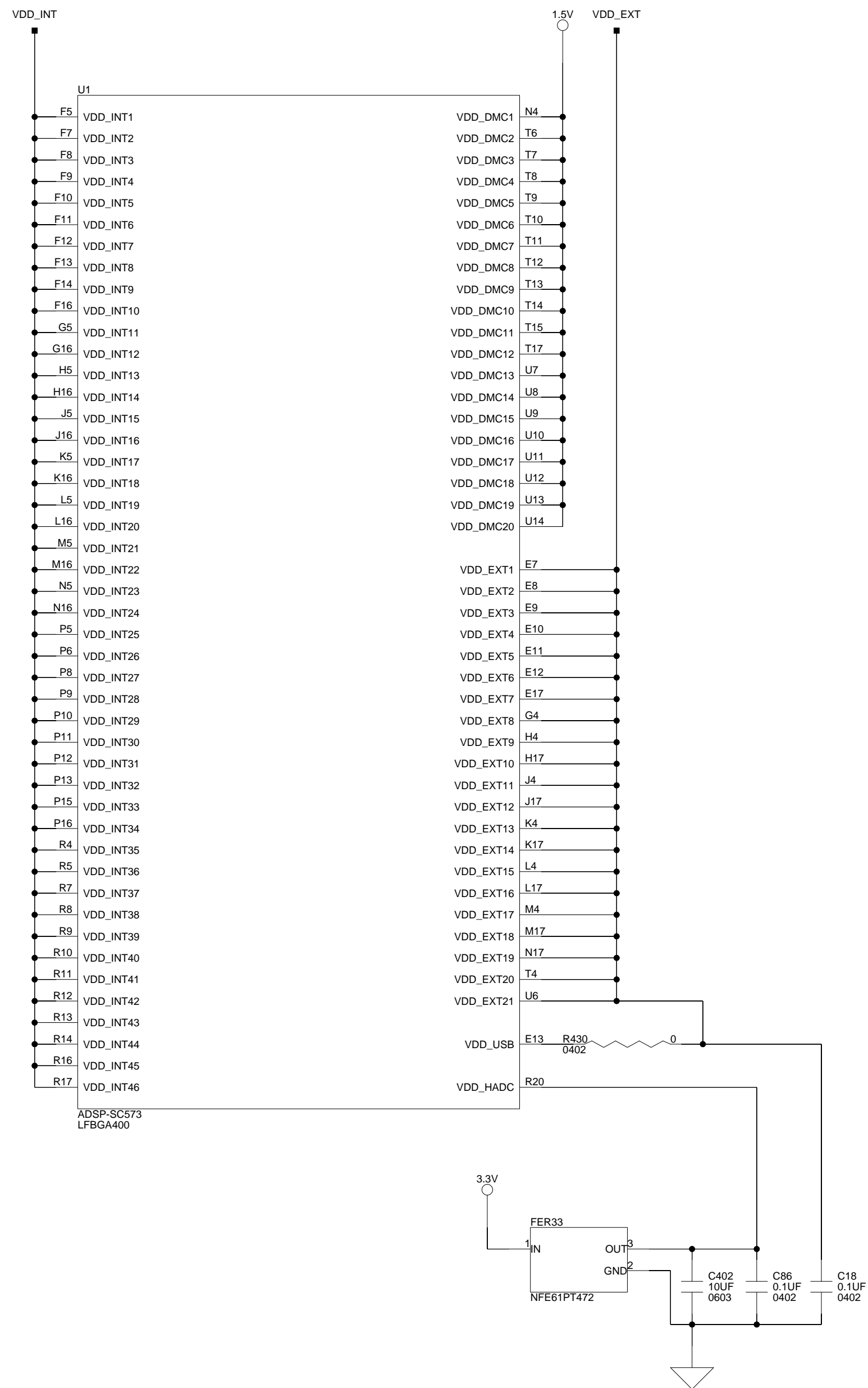
4

4




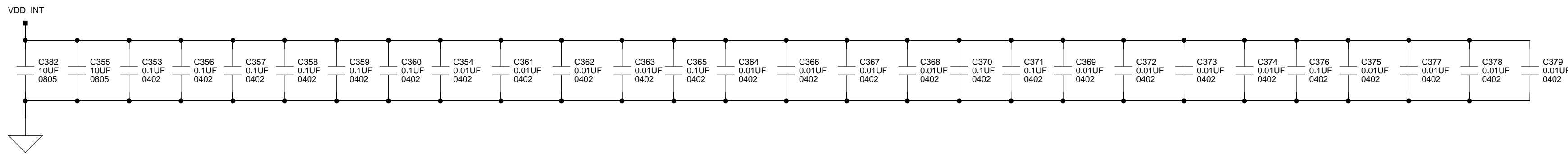
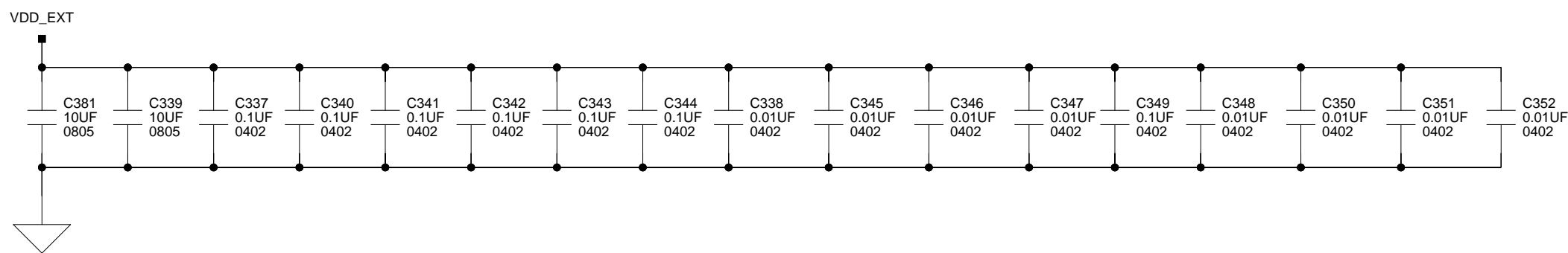
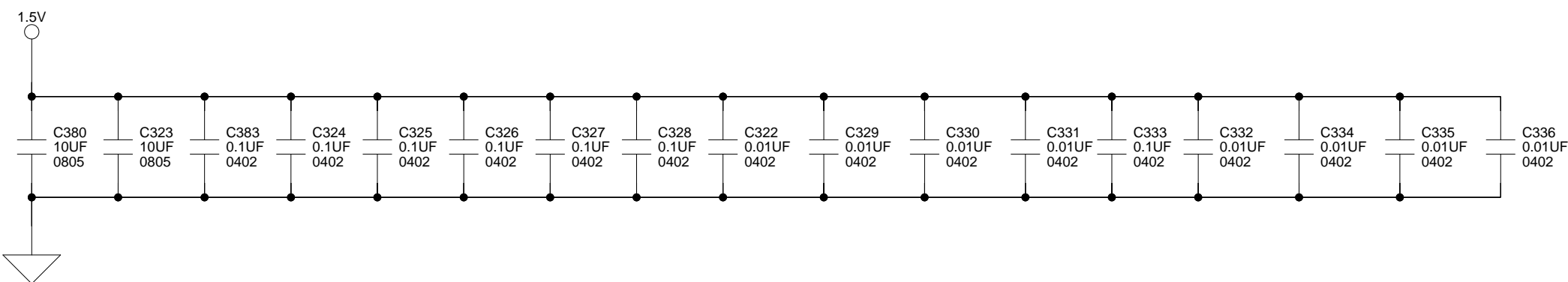
2 Elizabeth Drive
Chelmsford, MA 01824
PH: 1-800-ANALOGD


Title		ADSP-SC573 EZ-KIT Mux Ports	
Size	Board No.	A0760-2015	
Date	5/5/16	Sheet 4	of 28
		Rev 1.0A	

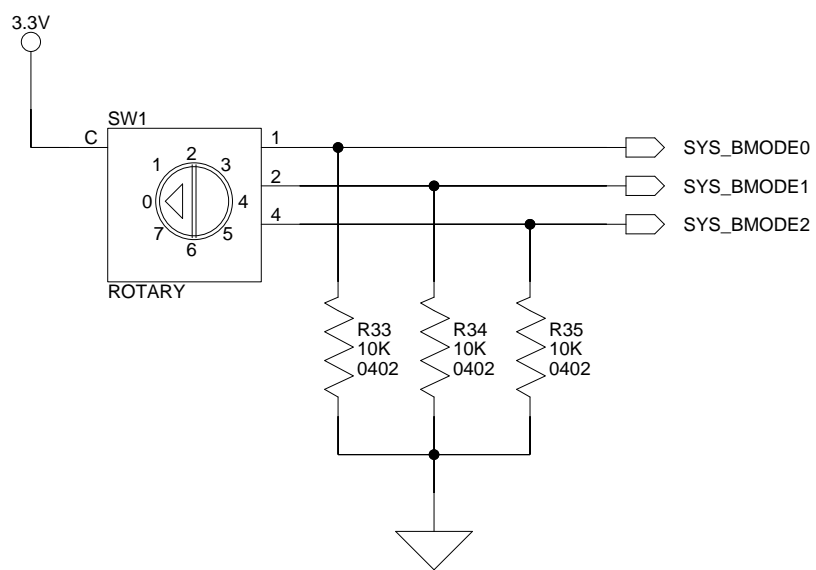


Connect to GND on customers design

		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT Processor Power/Ground	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 5 of 28		



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title		ADSP-SC573 EZ-KIT Proc Bypass Caps	
Size C	Board No.	A0760-2015	Rev 1.0A
Date	5/5/16	Sheet 6	of 28



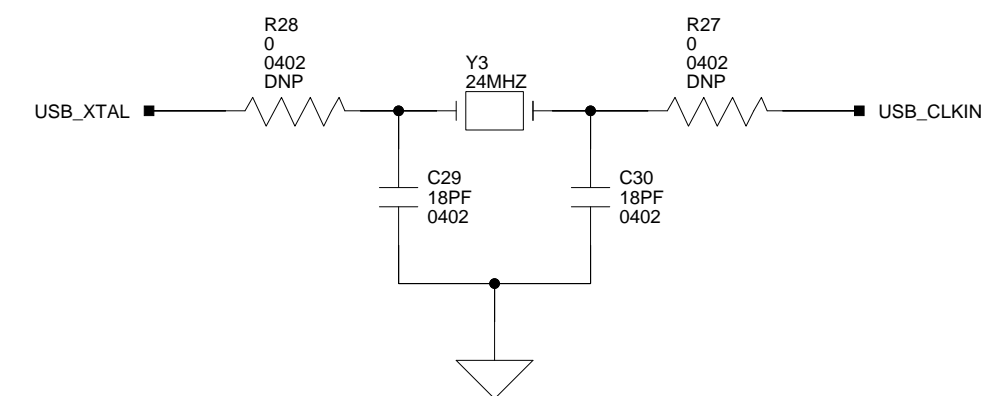
SW1: Boot mode selection switch

BMODE[2:0]	Boot Source
000	No boot/Custom ROM
001	SPI2 master boot
010	SPI2 slave boot
011	UART0 slave boot
100	Reserved
101	Reserved
110	LP0 slave boot
111	Reserved

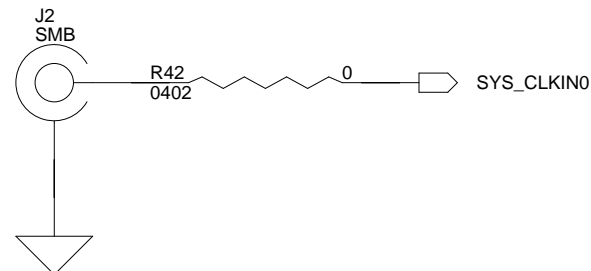
DEFAULT

R36 should be depopulated when using the optional circuit

OPTIONAL USB CRYSTAL

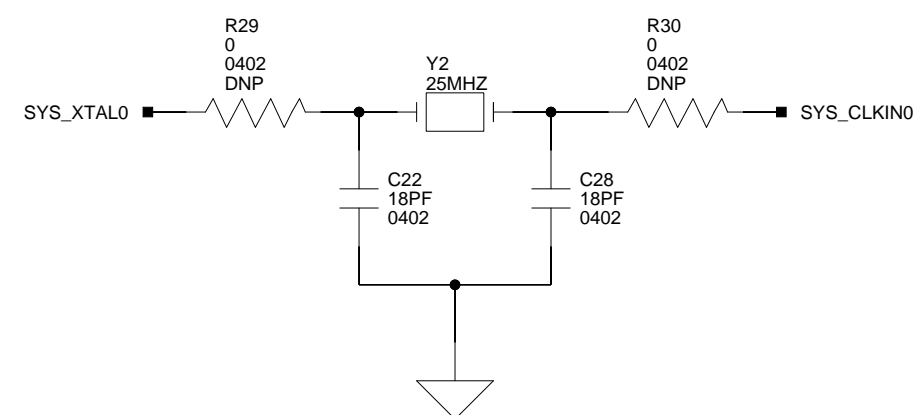


"CLKIN0"

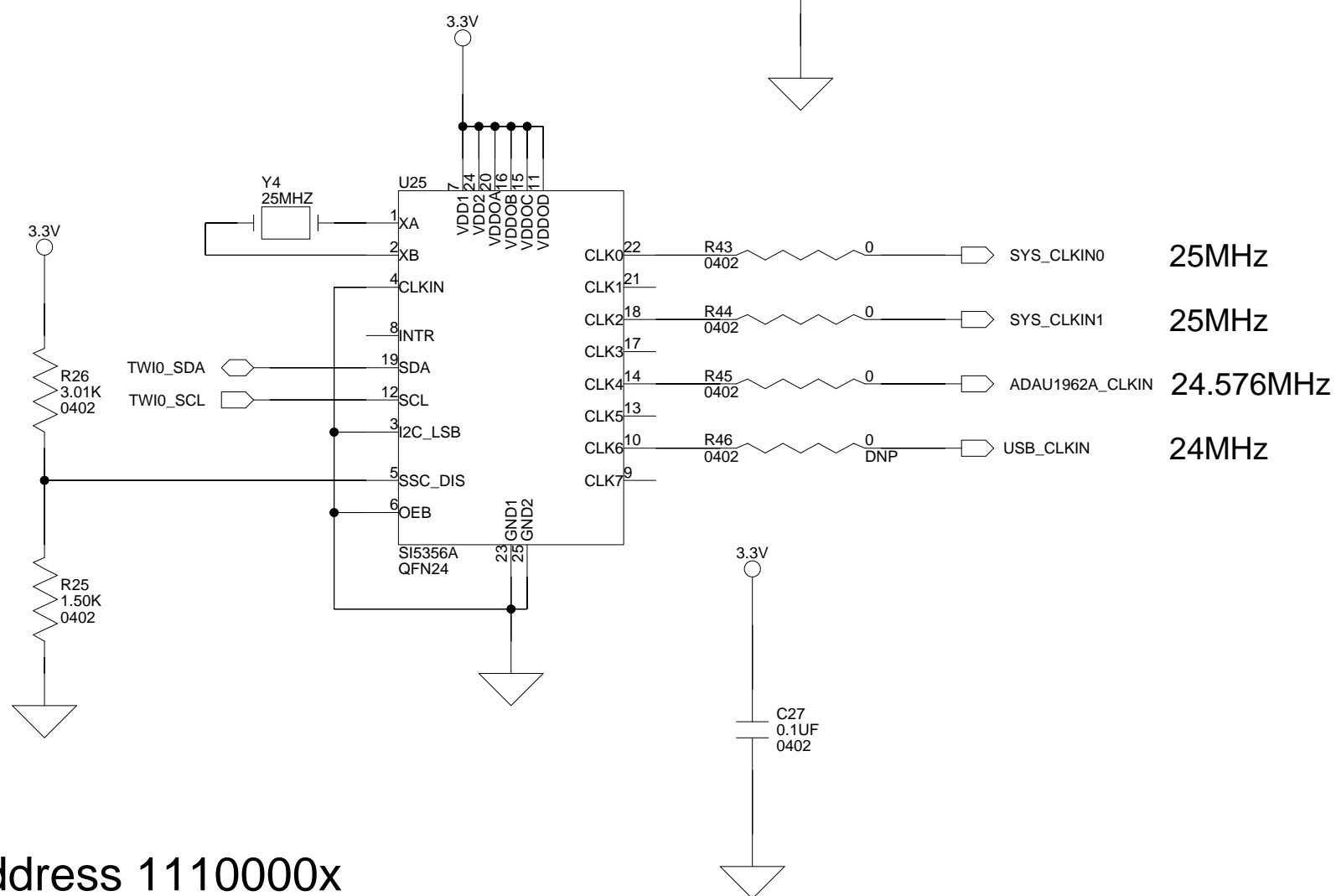
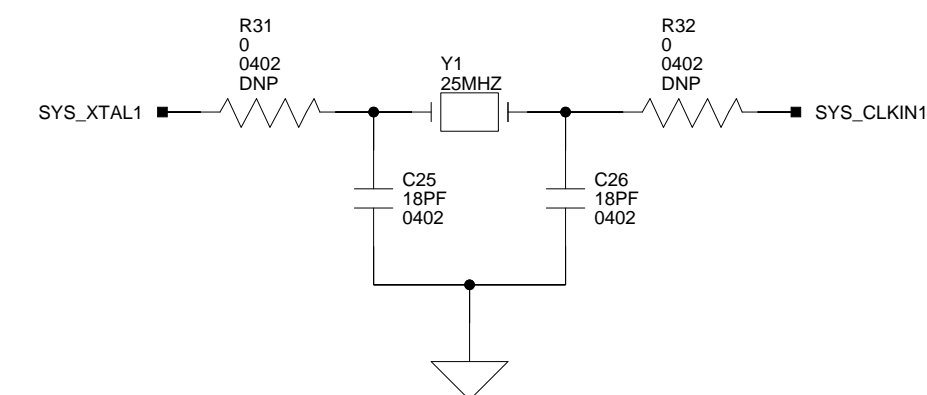


R43 should be depopulated when using the optional circuit

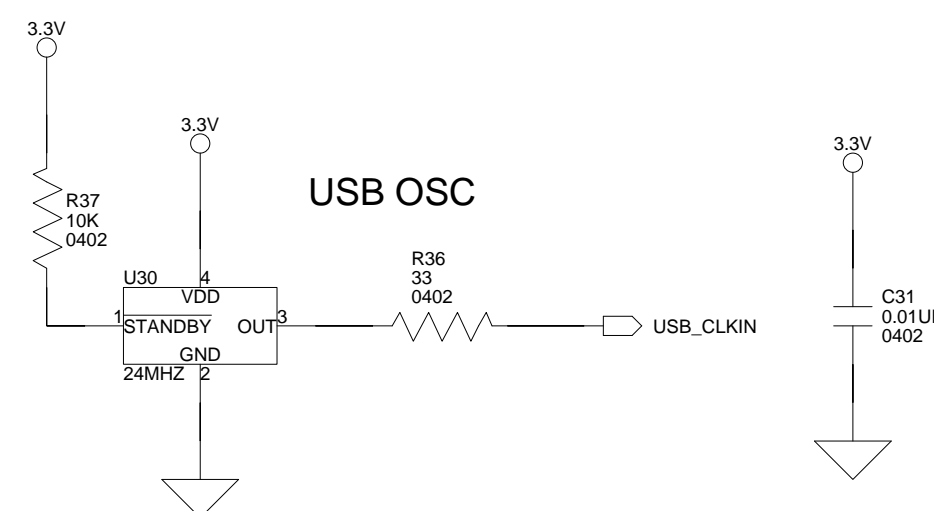
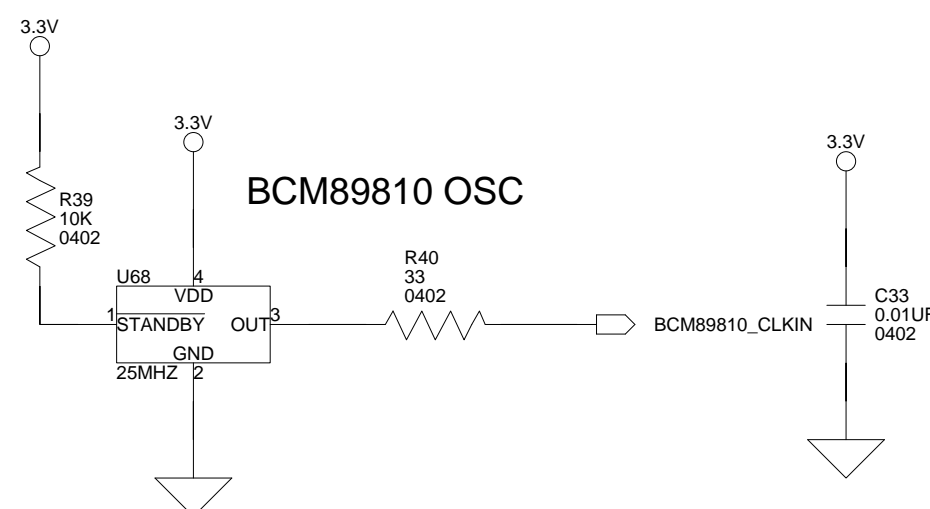
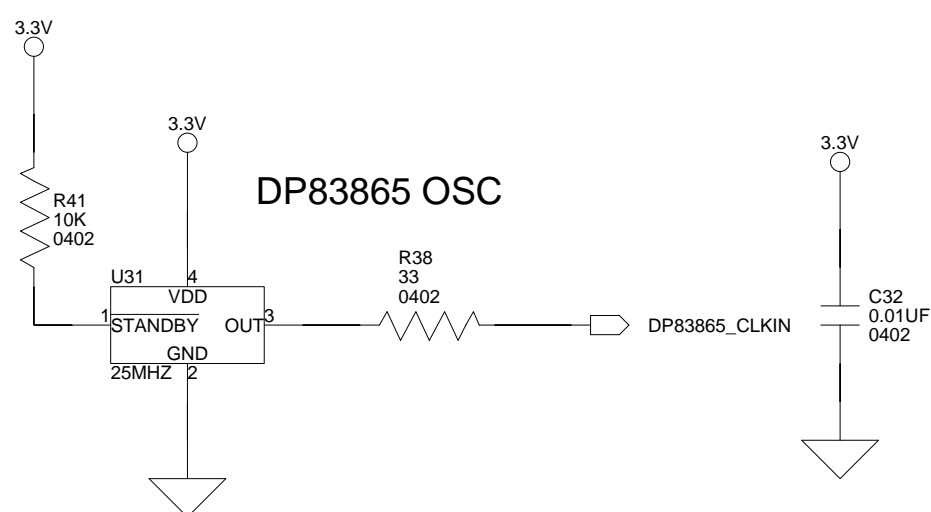
OPTIONAL DSP CRYSTALS



R44 should be depopulated when using the optional circuit

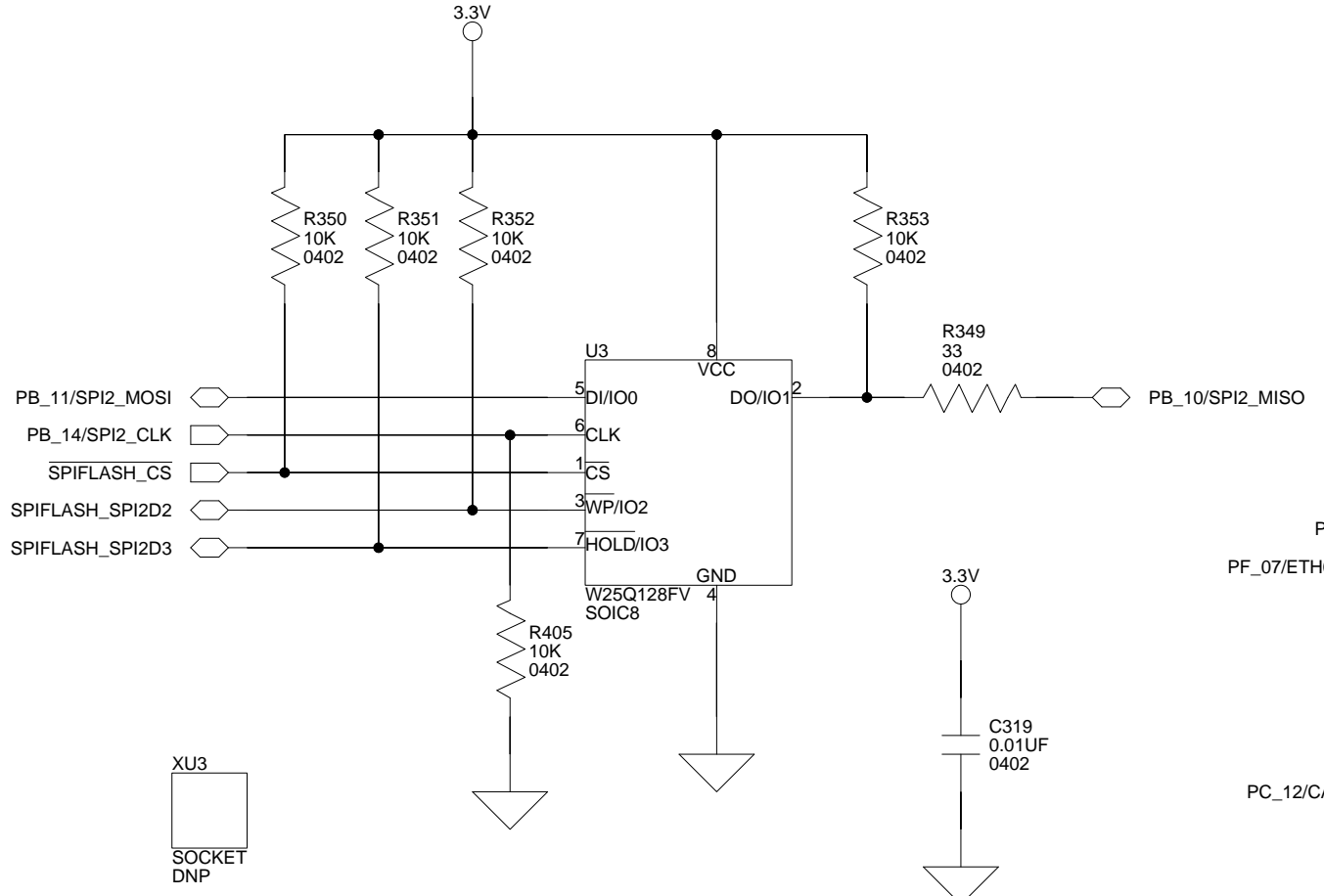


TWI Address 1110000x
x is the R/W bit. Read - 1, Write - 0

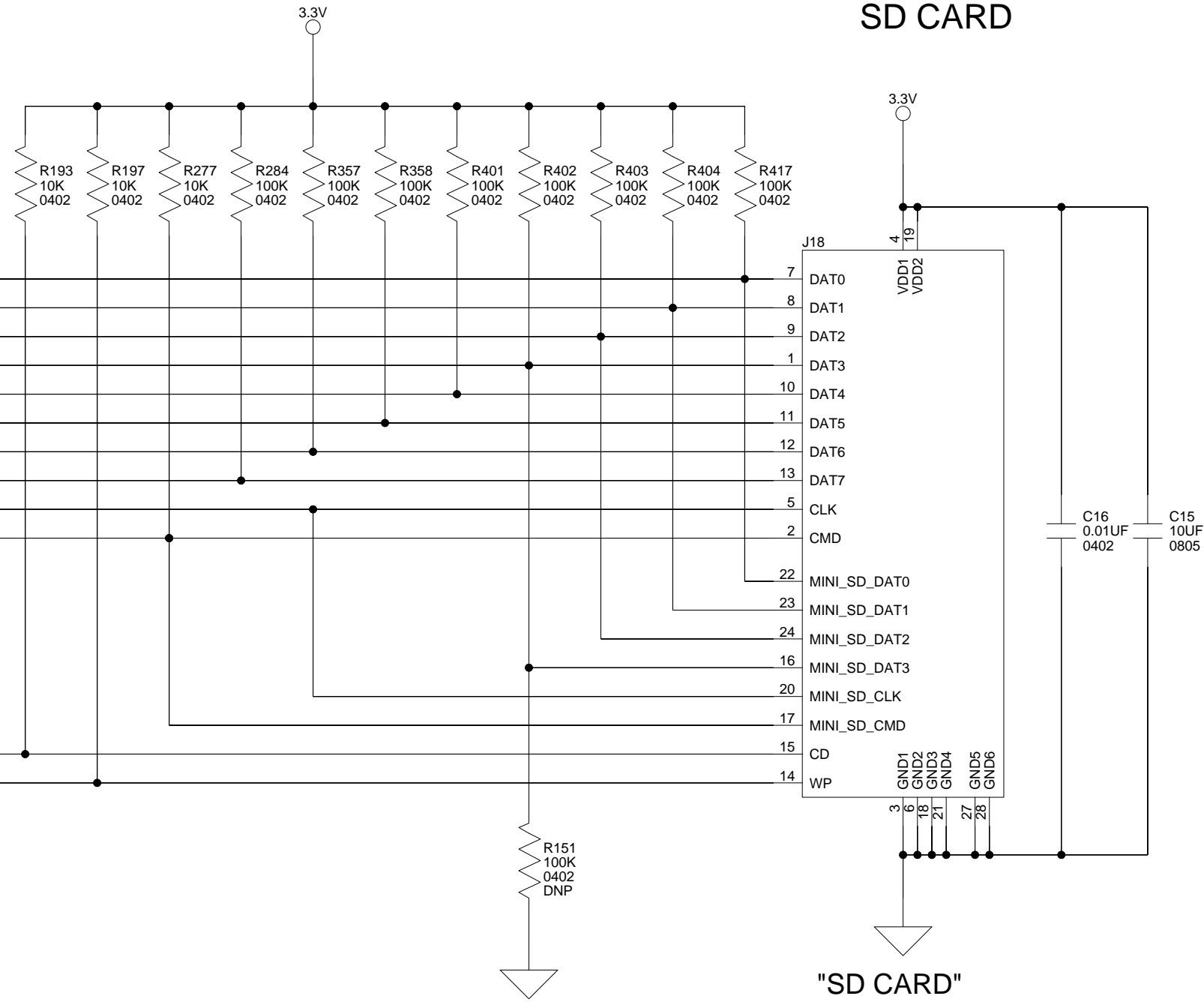
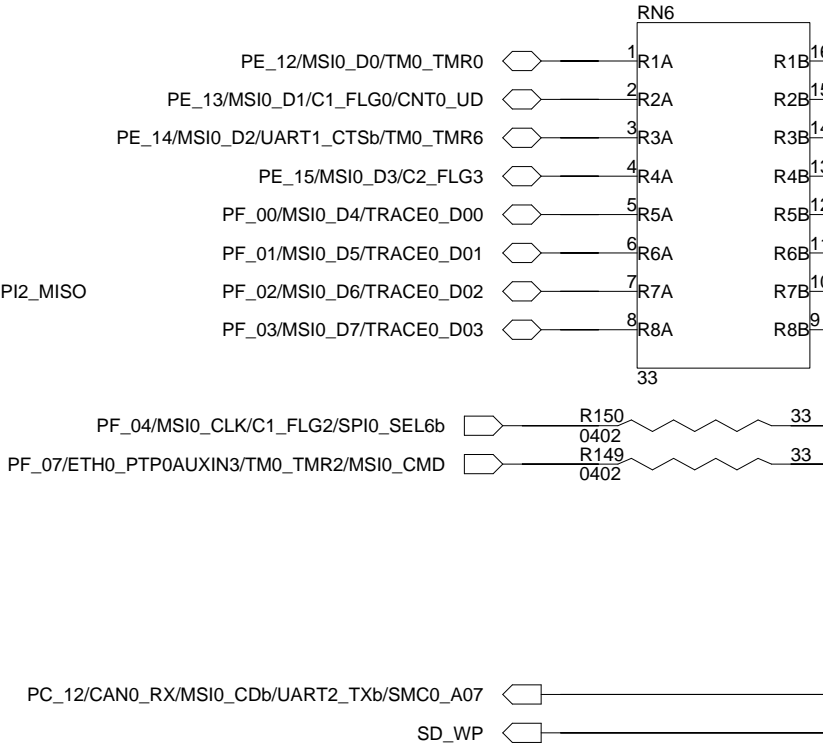


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT Clocks/Boot Mode	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 7		of 28

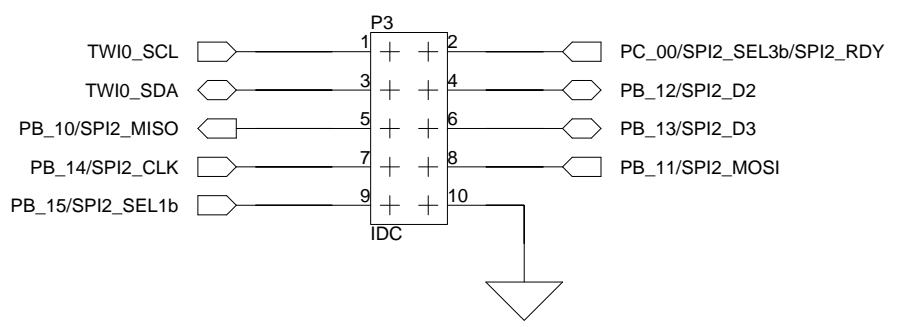
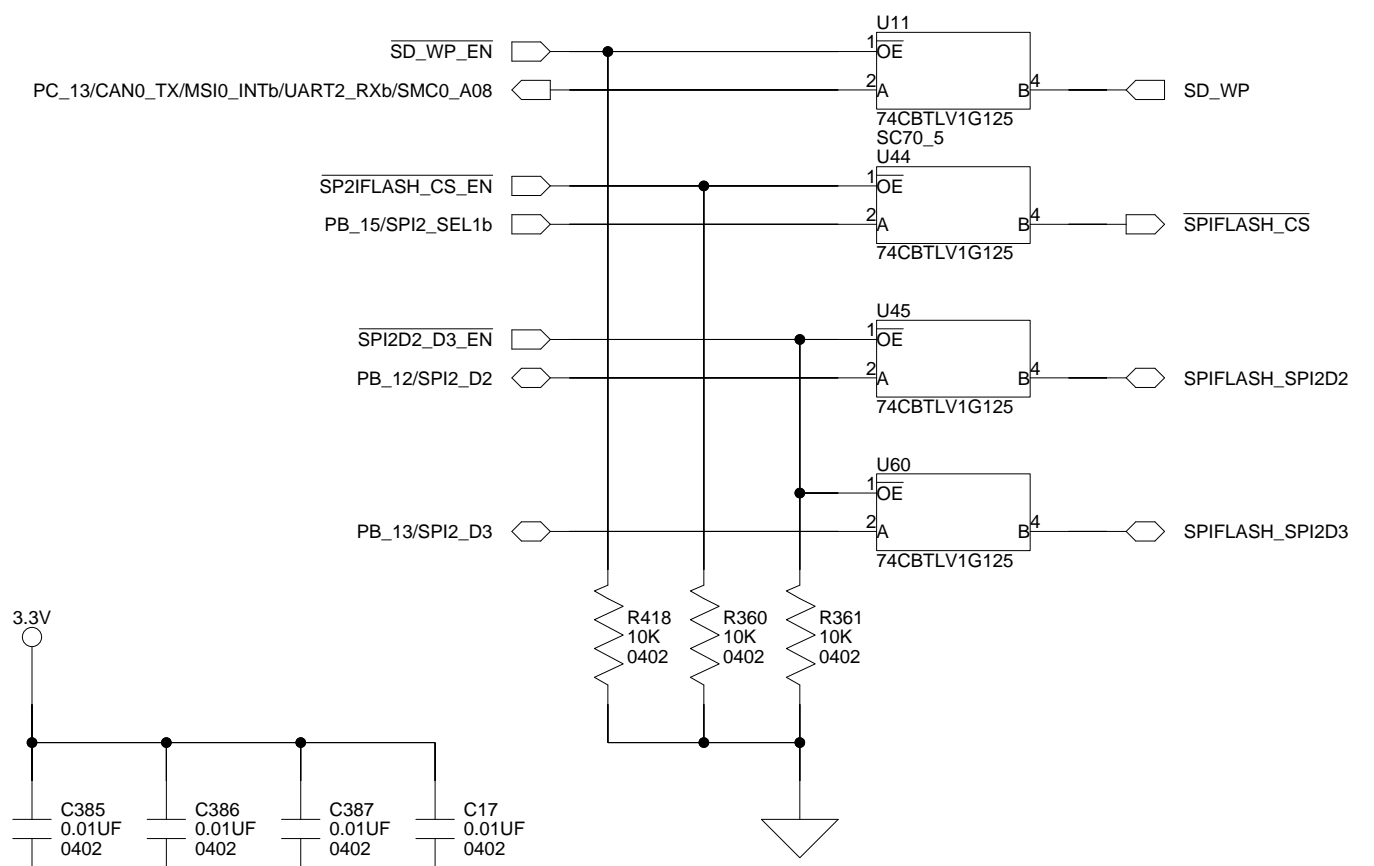
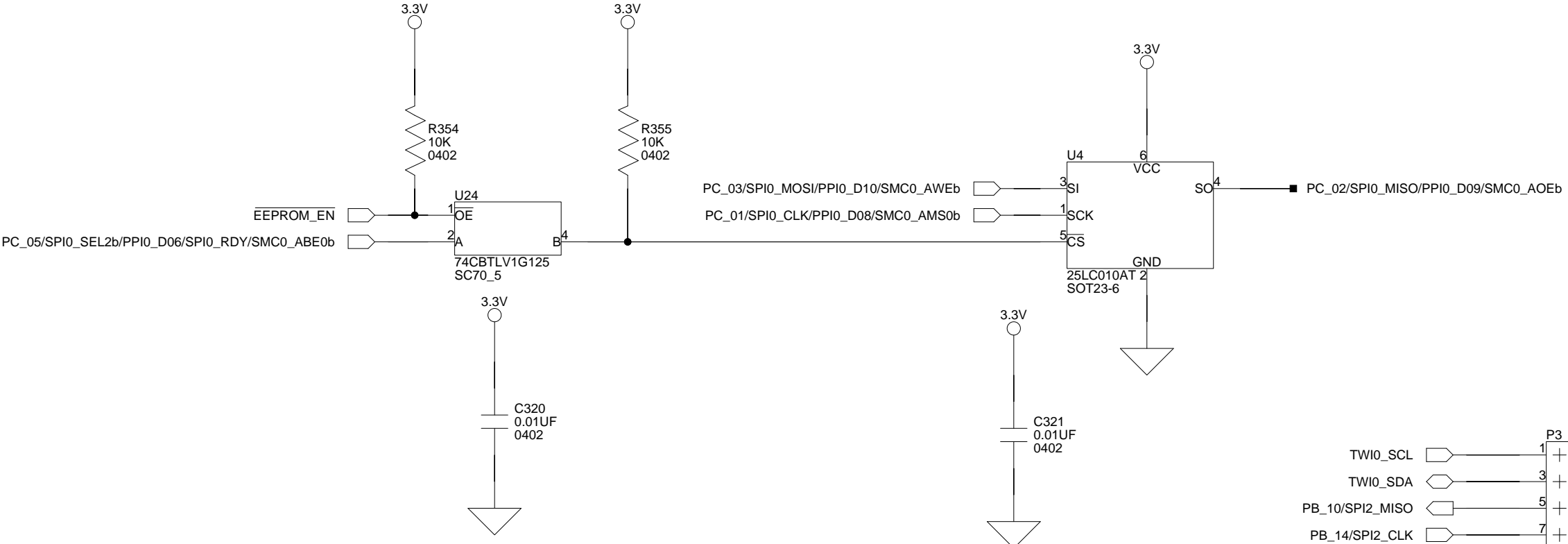
128Mb QUAD SPI FLASH



XU3
SOCKET
DNP

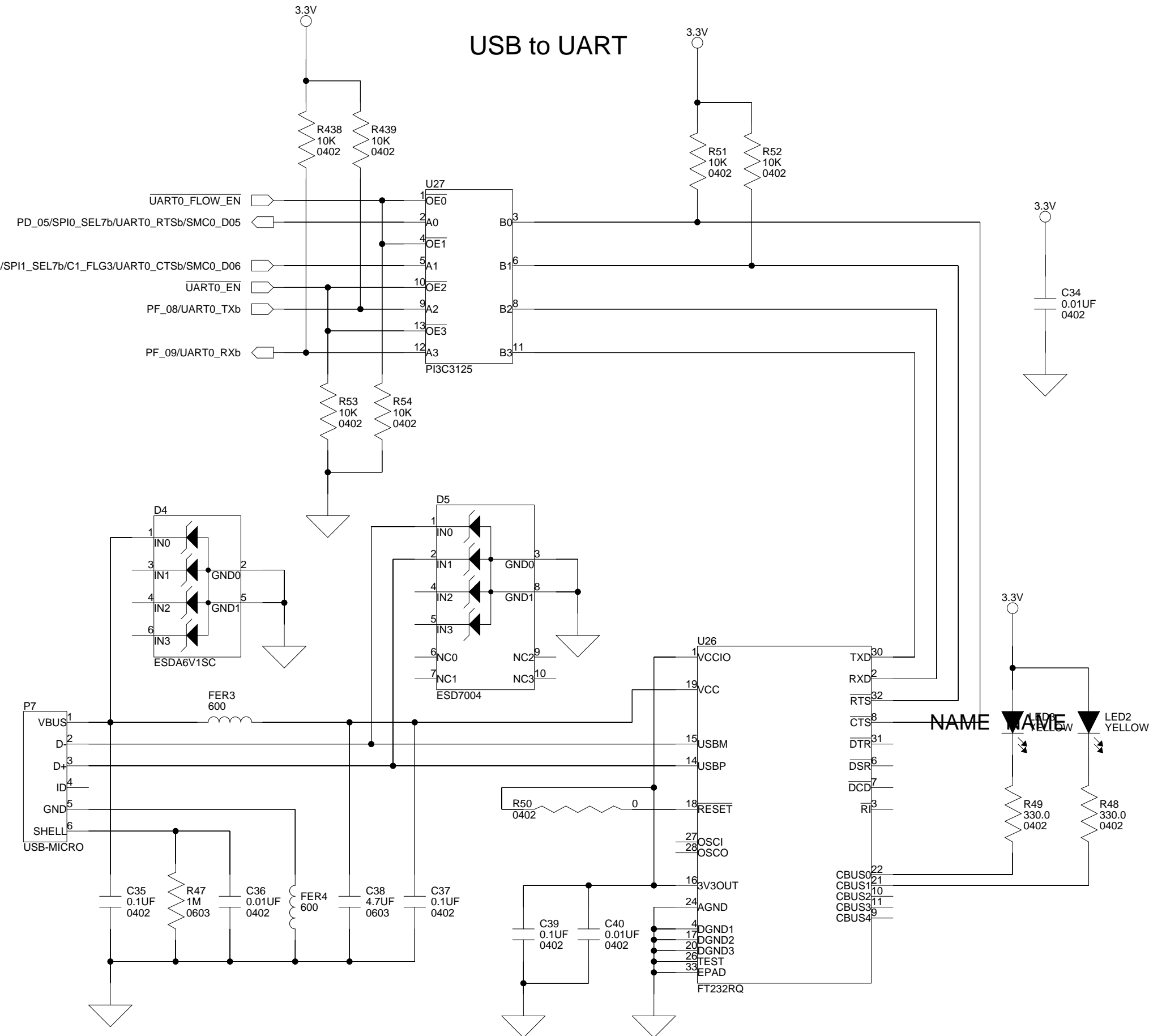


1Kb SPI EEPROM

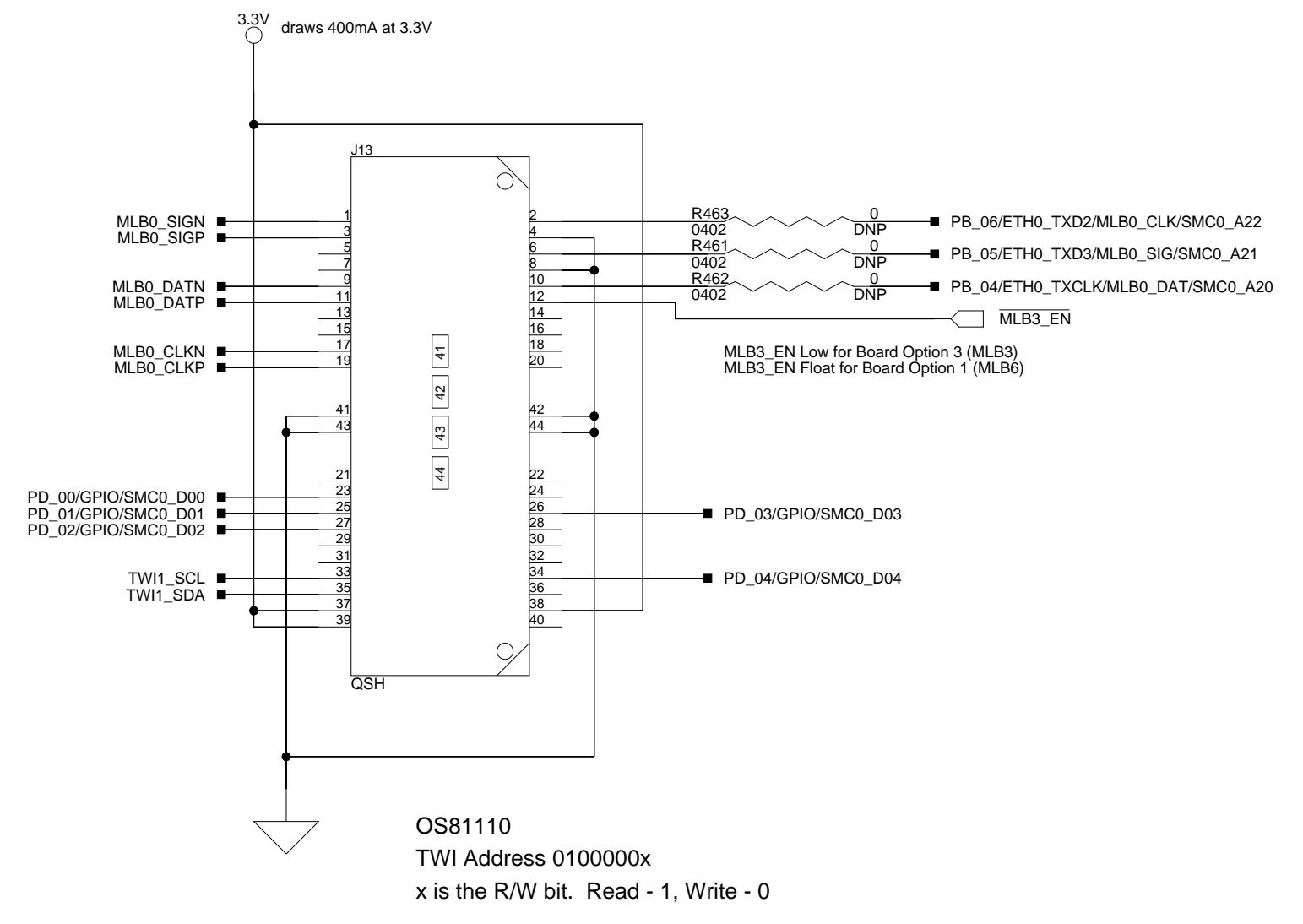


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT SPI Flash/MSI	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 8		of 28

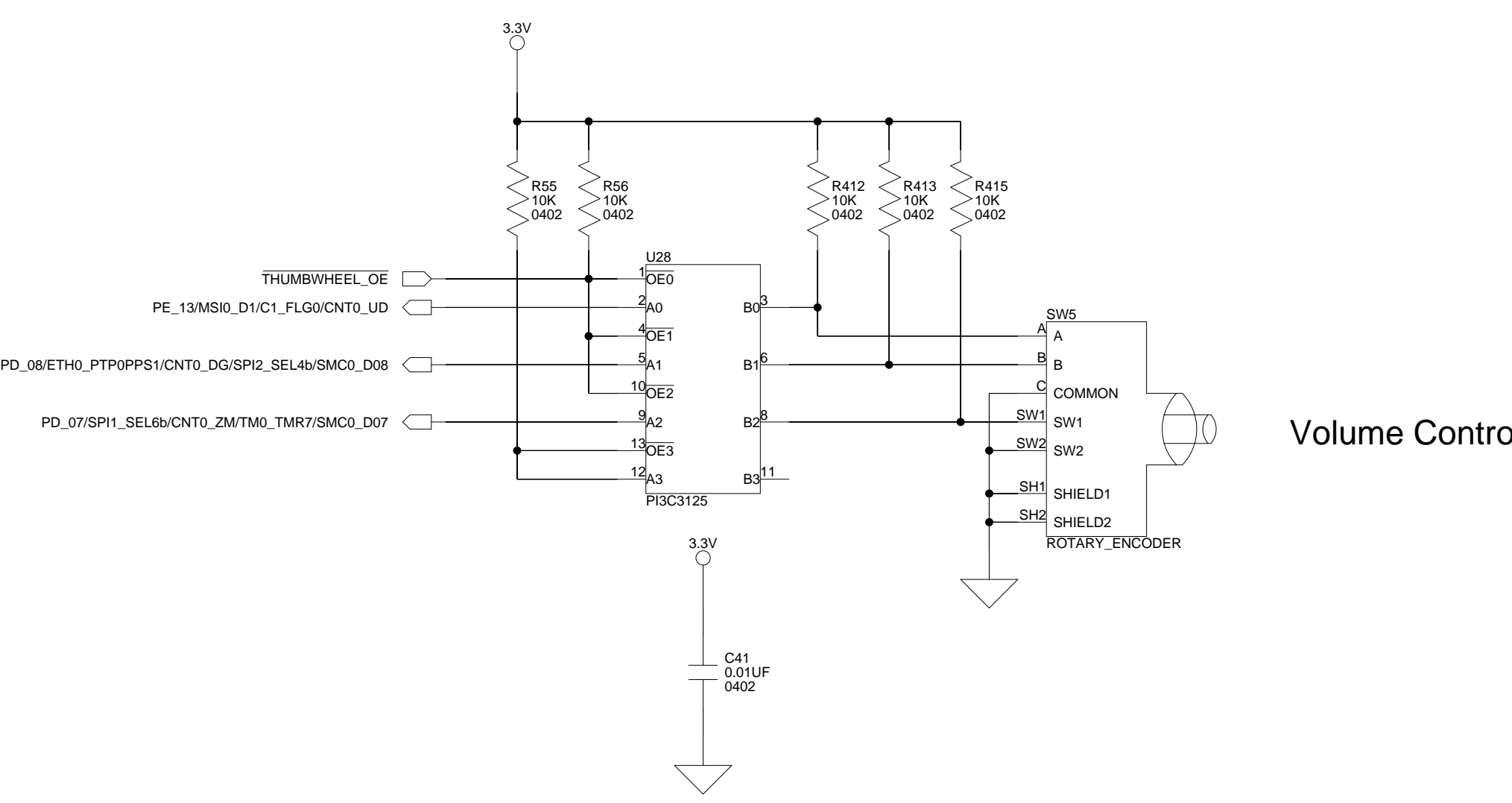
USB to UART



MLB 3/6

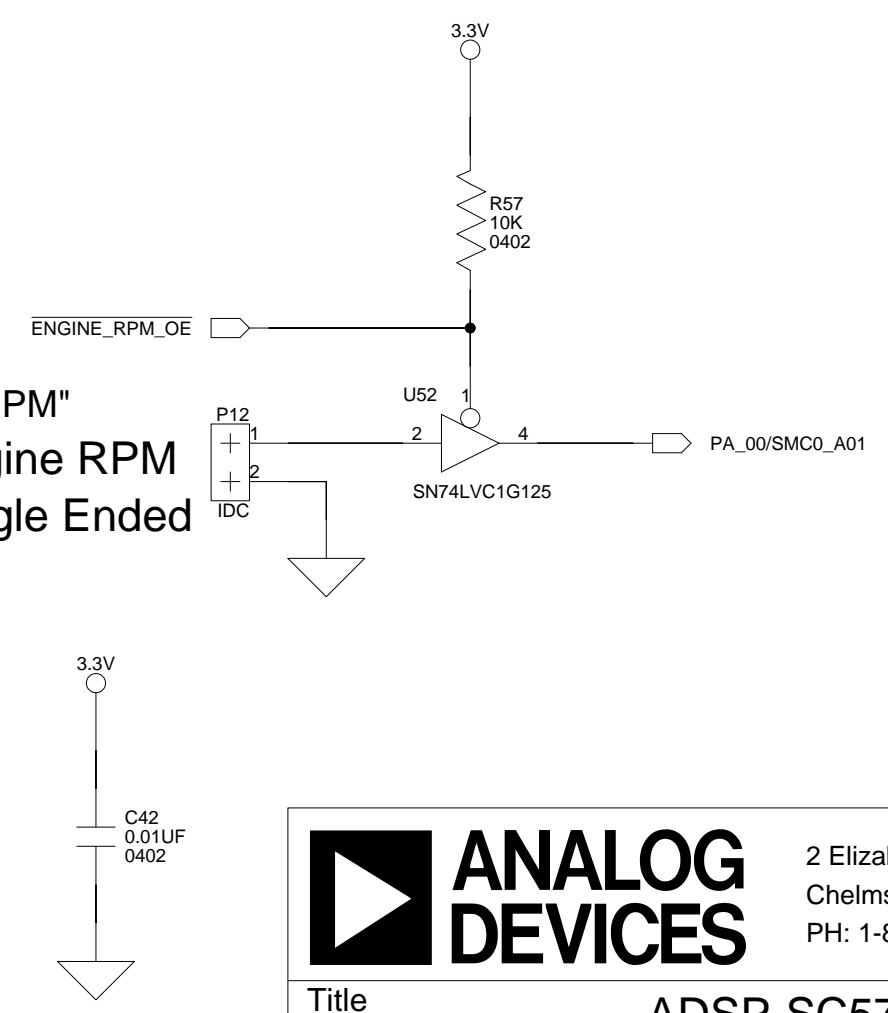


NAME



Volume Control

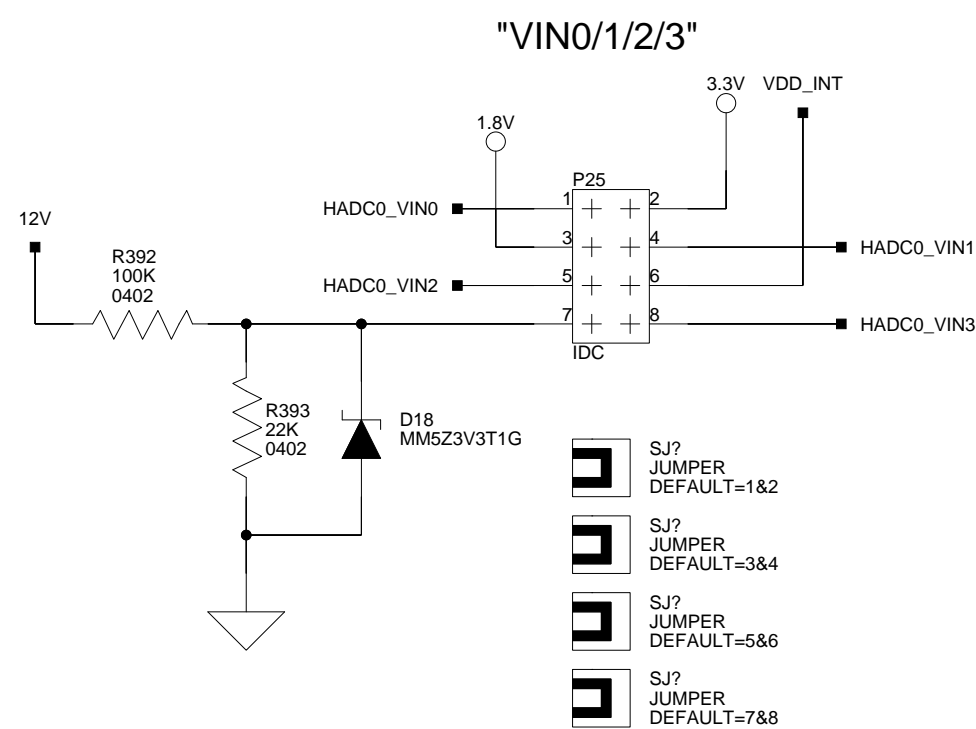
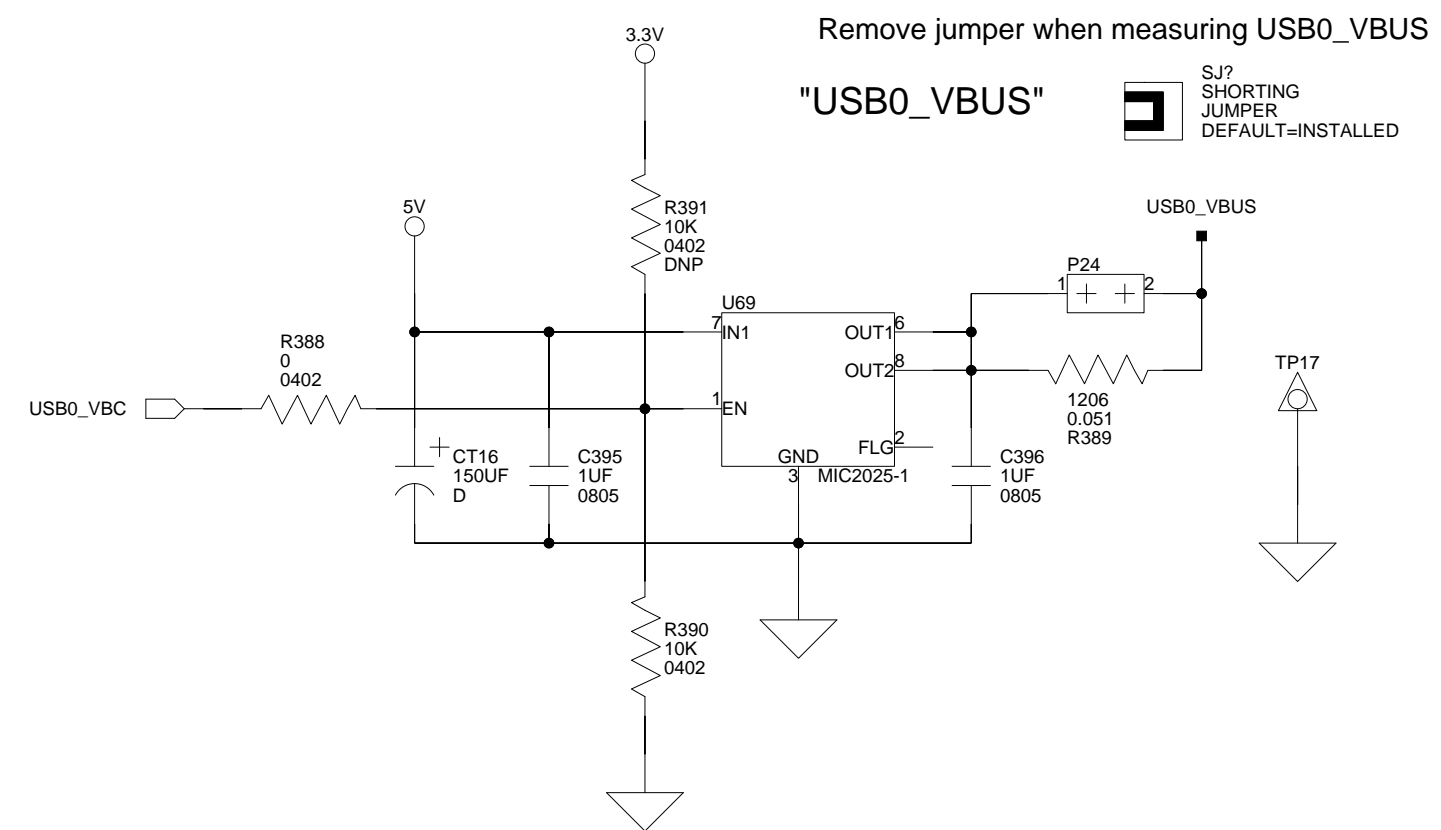
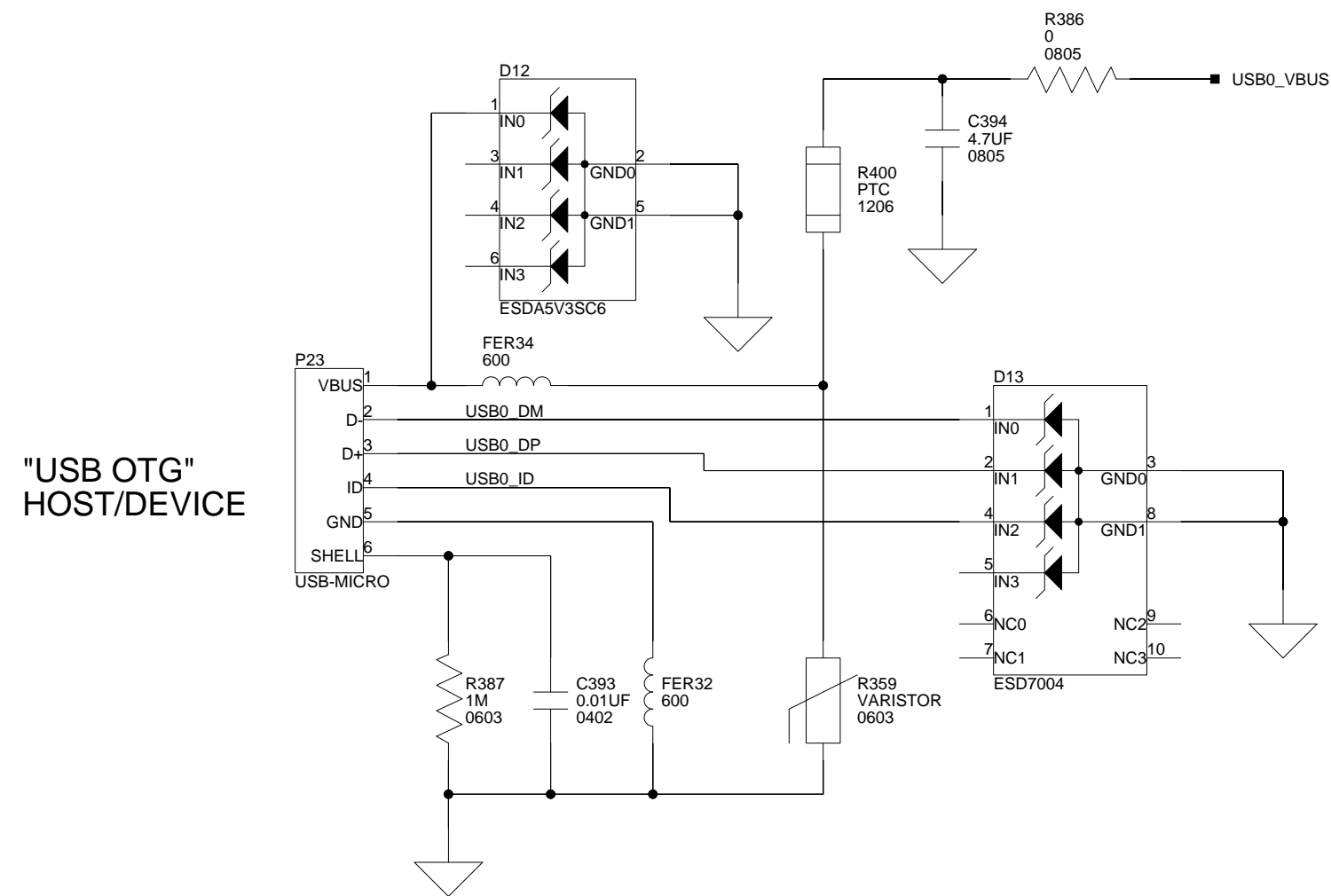
"RPM" Engine RPM Single Ended



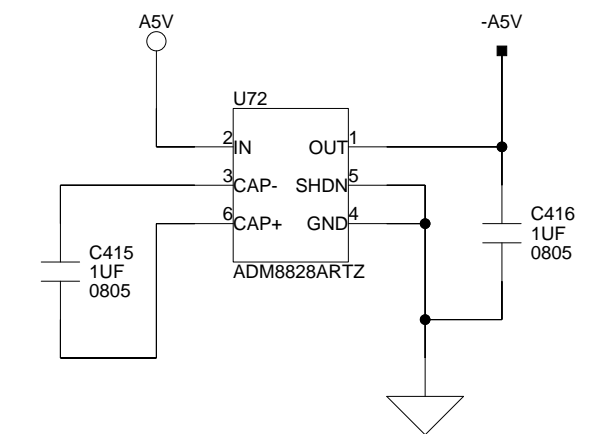
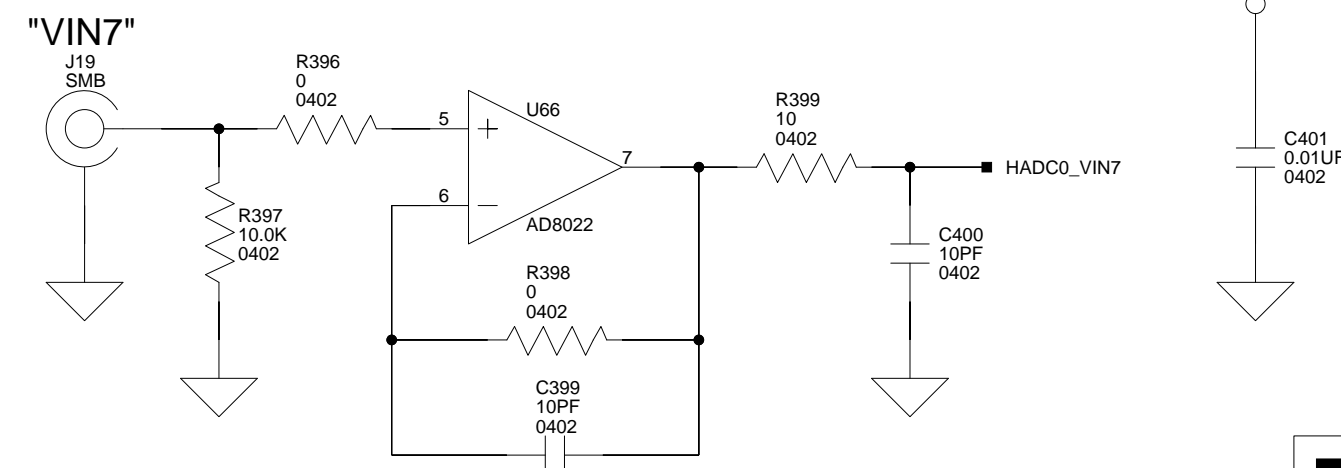
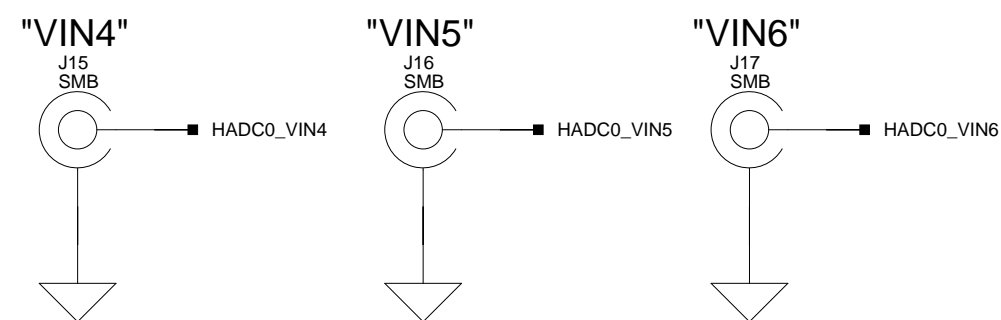
ANALOG DEVICES
 2 Elizabeth Drive
 Chelmsford, MA 01824
 PH: 1-800-ANALOGD

Title: **ADSP-SC573 EZ-KIT**
UART/MOST/Thumbwheel

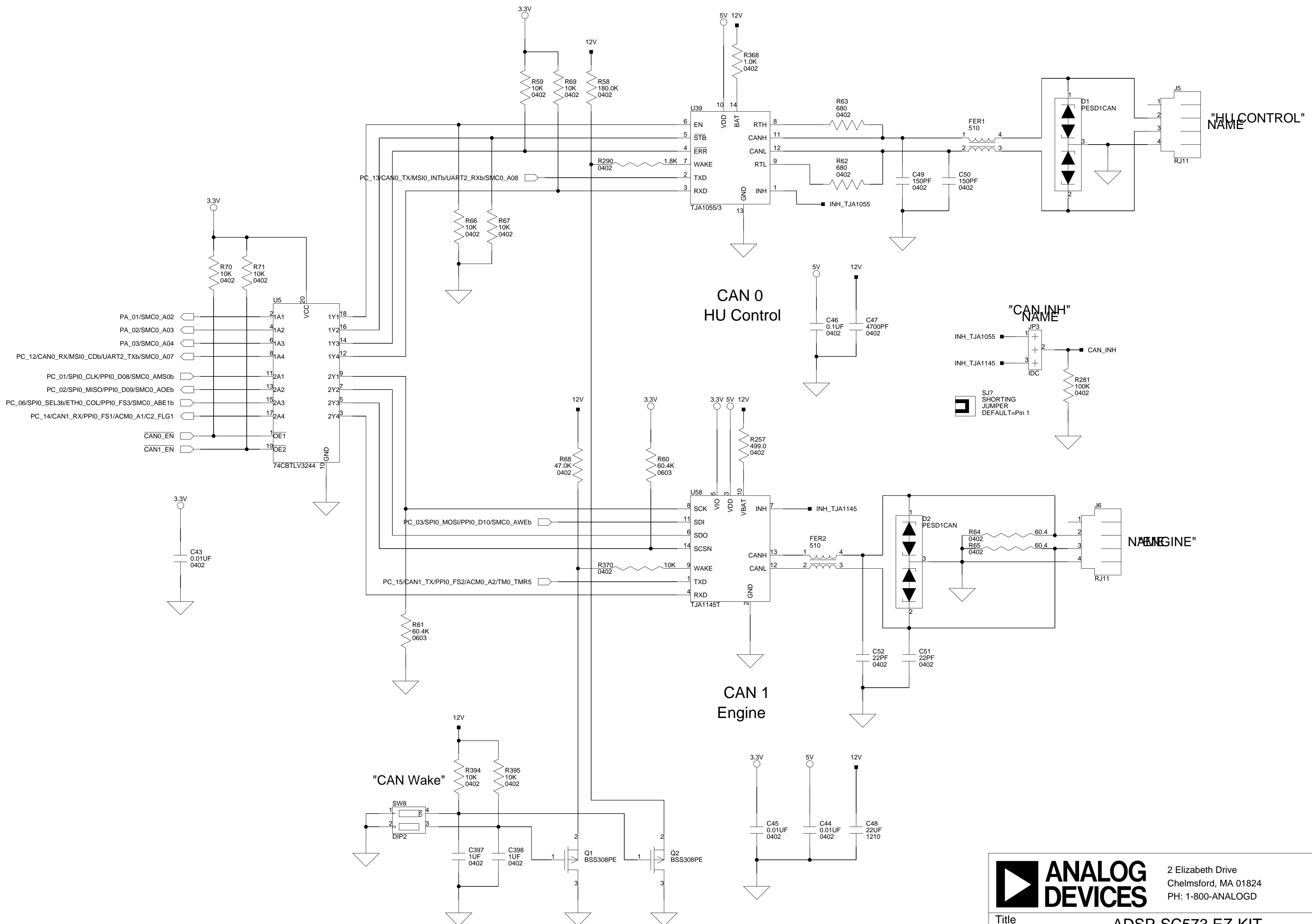
Size C	Board No. A0760-2015	Rev 1.0A
Date 5/5/16	Sheet 9	of 28



HADC Connectors

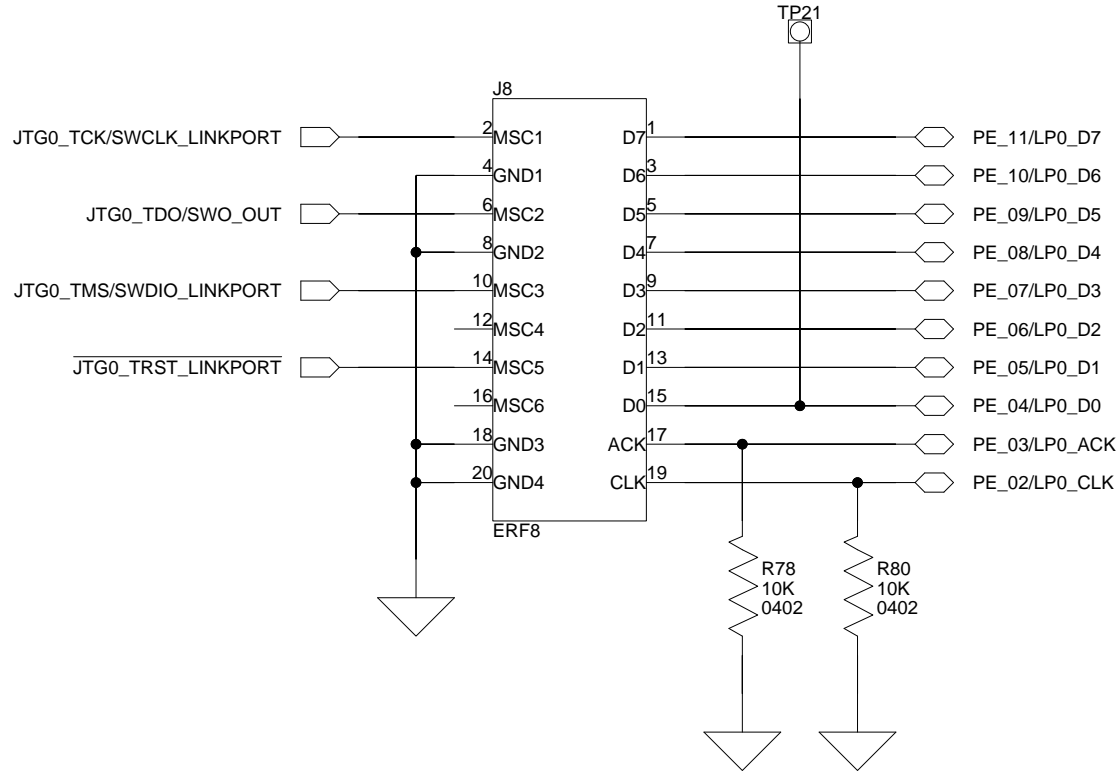


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT USB/ADC	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 10	of 28	

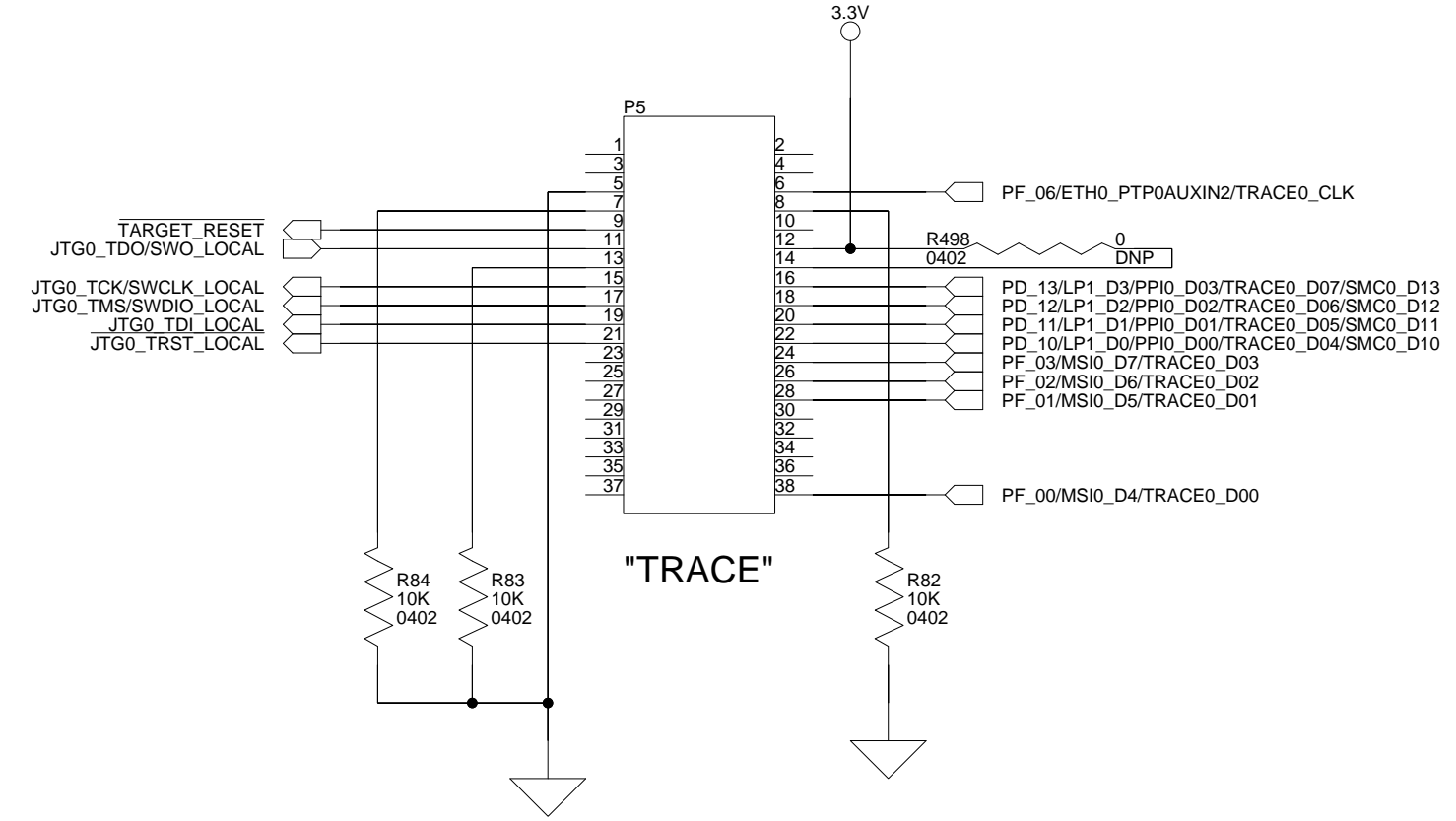
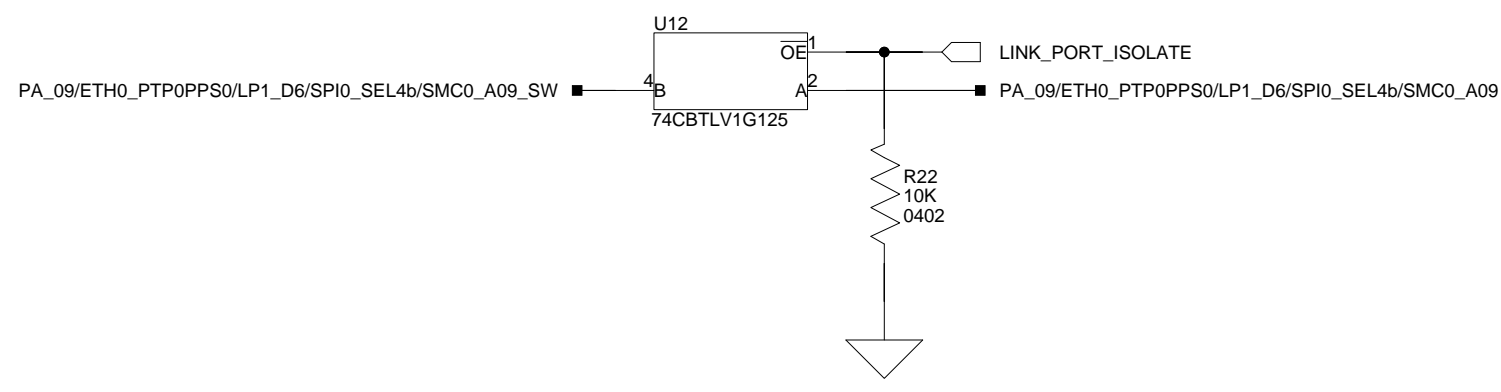
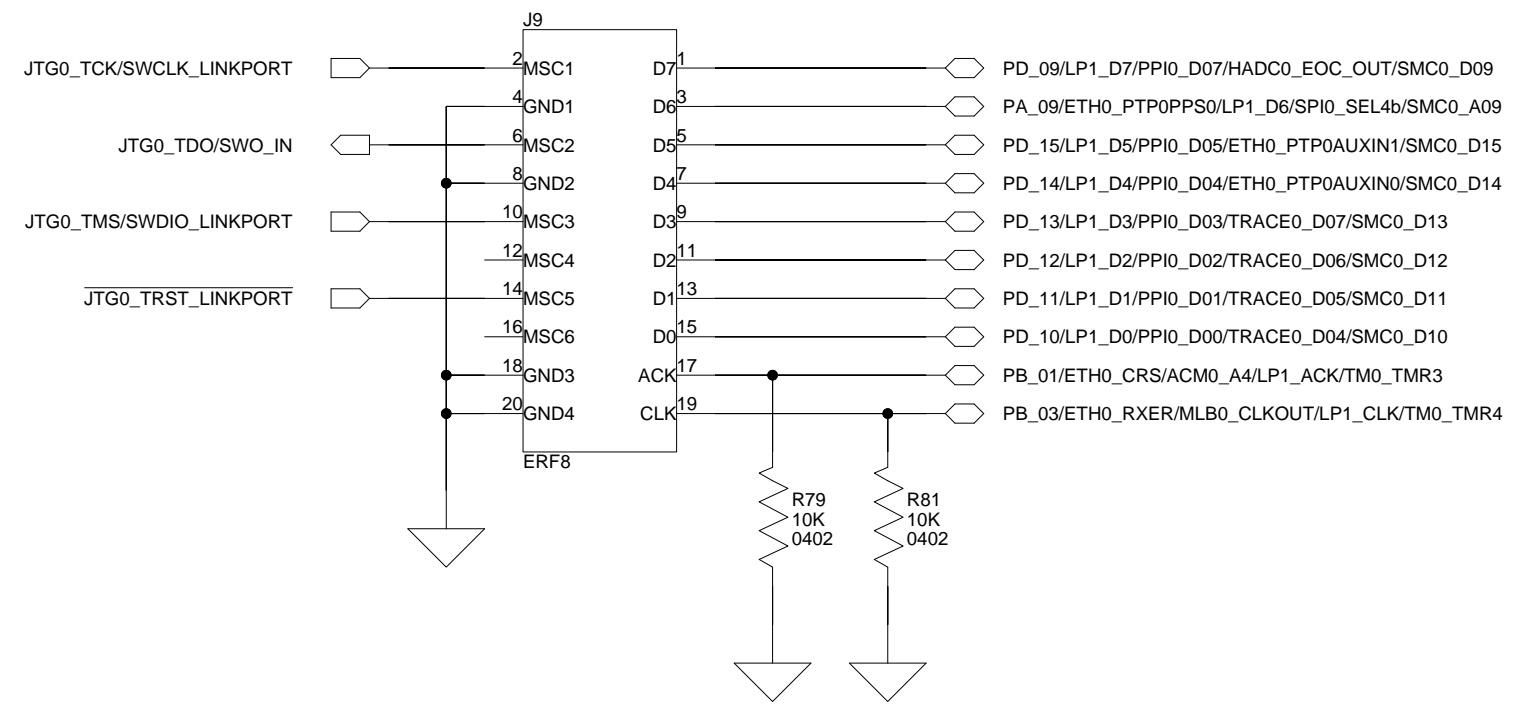


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT CAN	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 11		of 28

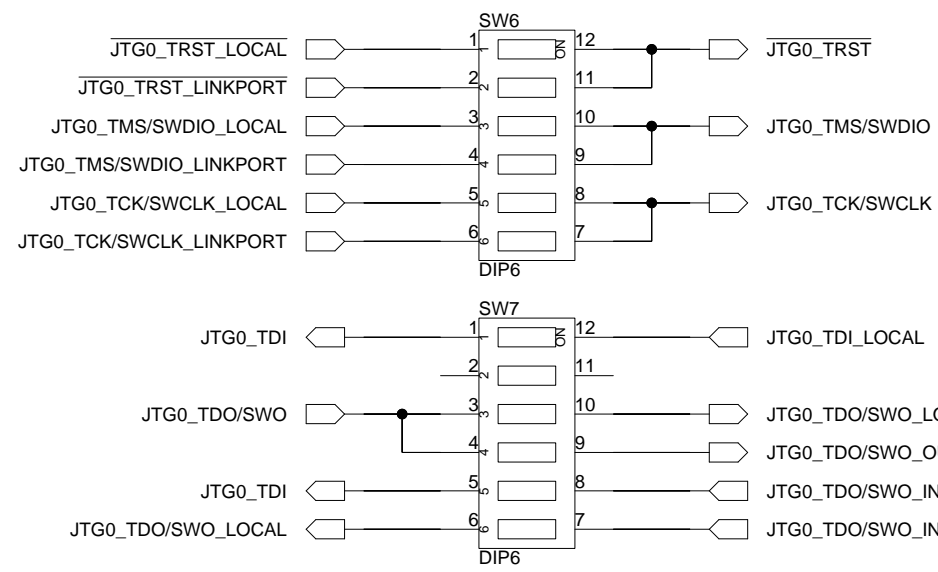
LINK PORT 0 / JTAG OUT



LINK PORT 1 / JTAG IN



JTAG SWITCHES

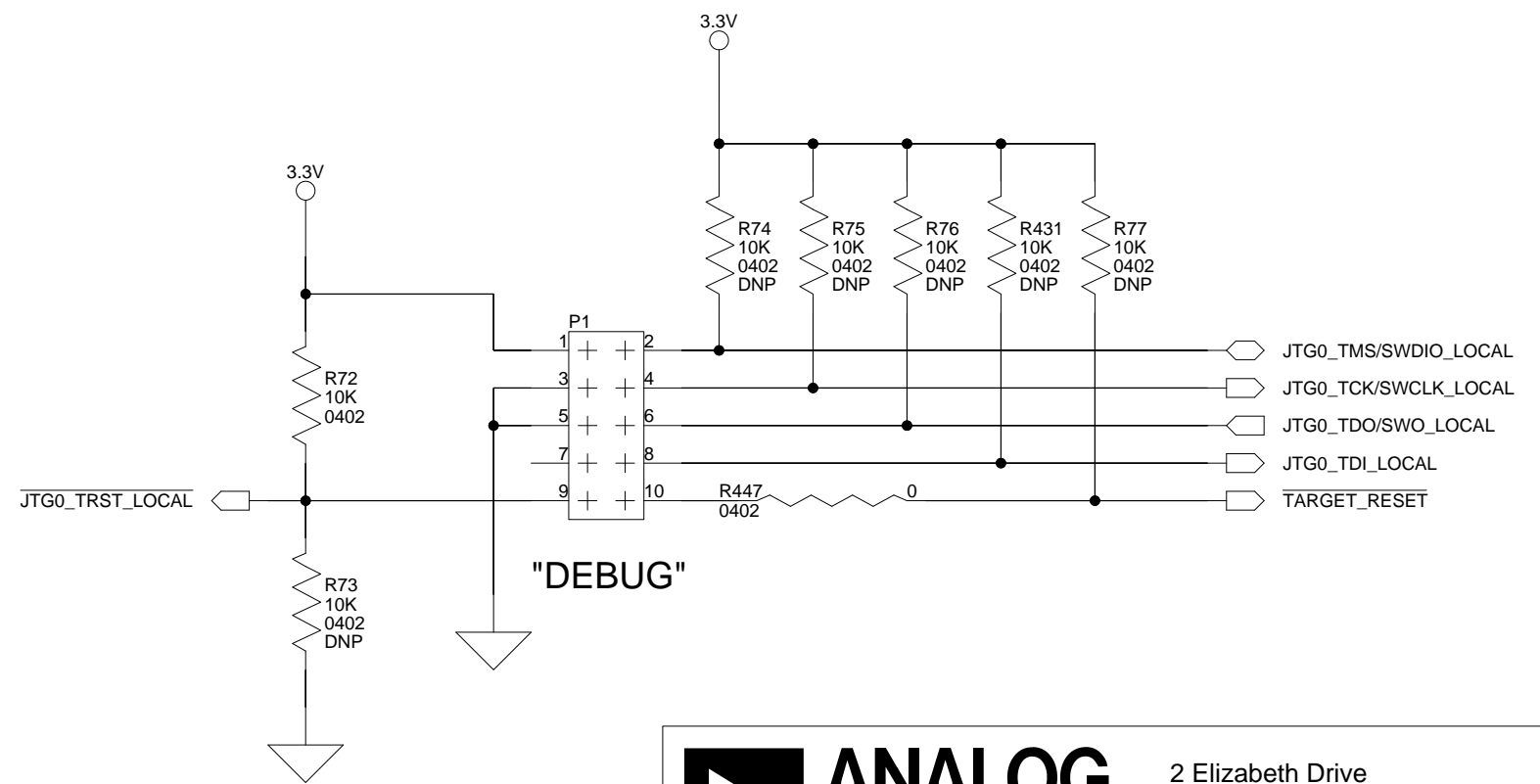


SINGLE PROCESSOR JTAG SETTINGS
EMULATOR OR DEBUG AGENT (DEFAULT)

SWITCH	BOARD ATTACHED TO EMULATOR
SW6.1	ON
SW6.2	OFF
SW6.3	ON
SW6.4	OFF
SW6.5	ON
SW?.6	OFF
SW7.1	ON
SW7.2	OFF
SW7.3	ON
SW7.4	OFF
SW7.5	OFF
SW7.6	OFF

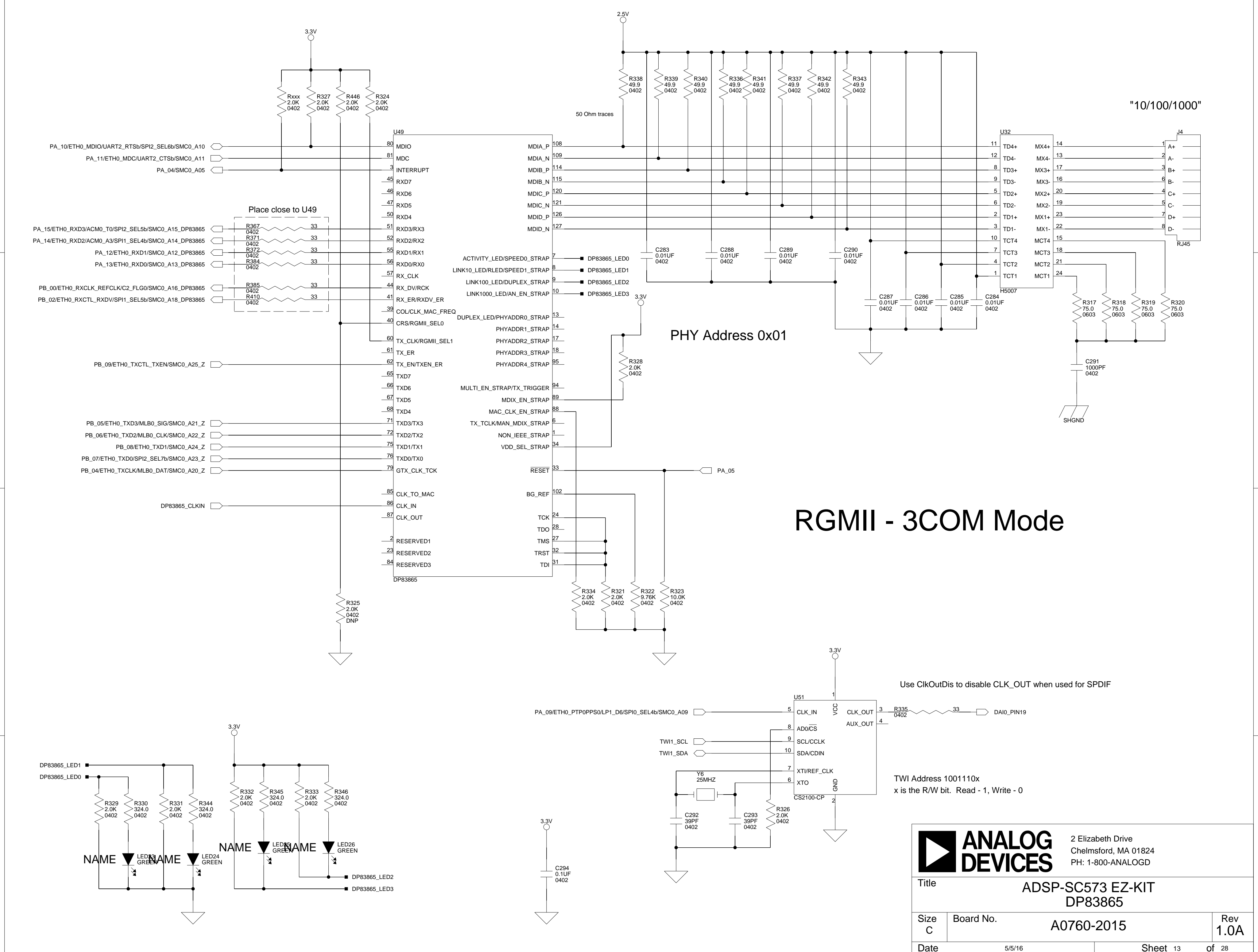
MULTI PROCESSOR JTAG SETTINGS
USING TWO OR MORE EZ-BOARDS (LINK PORT CABLES
REQUIRED FOR MORE THAN TWO BOARDS)

SWITCH	BOARD ATTACHED TO EMULATOR	BOARD(S) NOT ATTACHED TO EMULATOR
SW6.1	ON	OFF
SW6.2	ON	ON
SW6.3	ON	OFF
SW6.4	ON	ON
SW6.5	ON	OFF
SW6.6	ON	ON
SW7.1	ON	OFF
SW7.2	OFF	OFF
SW7.3	OFF	OFF
SW7.4	ON	ON
SW7.5	OFF	ON
SW7.6	ON	OFF



2 Elizabeth Drive
Chelmsford, MA 01824
PH: 1-800-ANALOGD


Title			ADSP-SC573 EZ-KIT Link Port/Debug		
Size	Board No.				Rev
C	A0760-2015				1.0A
Date	5/5/16	Sheet	12	of	28



RGMII - 3COM Mode

Use ClkOutDis to disable CLK_OUT when used for SPDIF

TWI Address 1001110x
x is the R/W bit. Read - 1, Write - 0

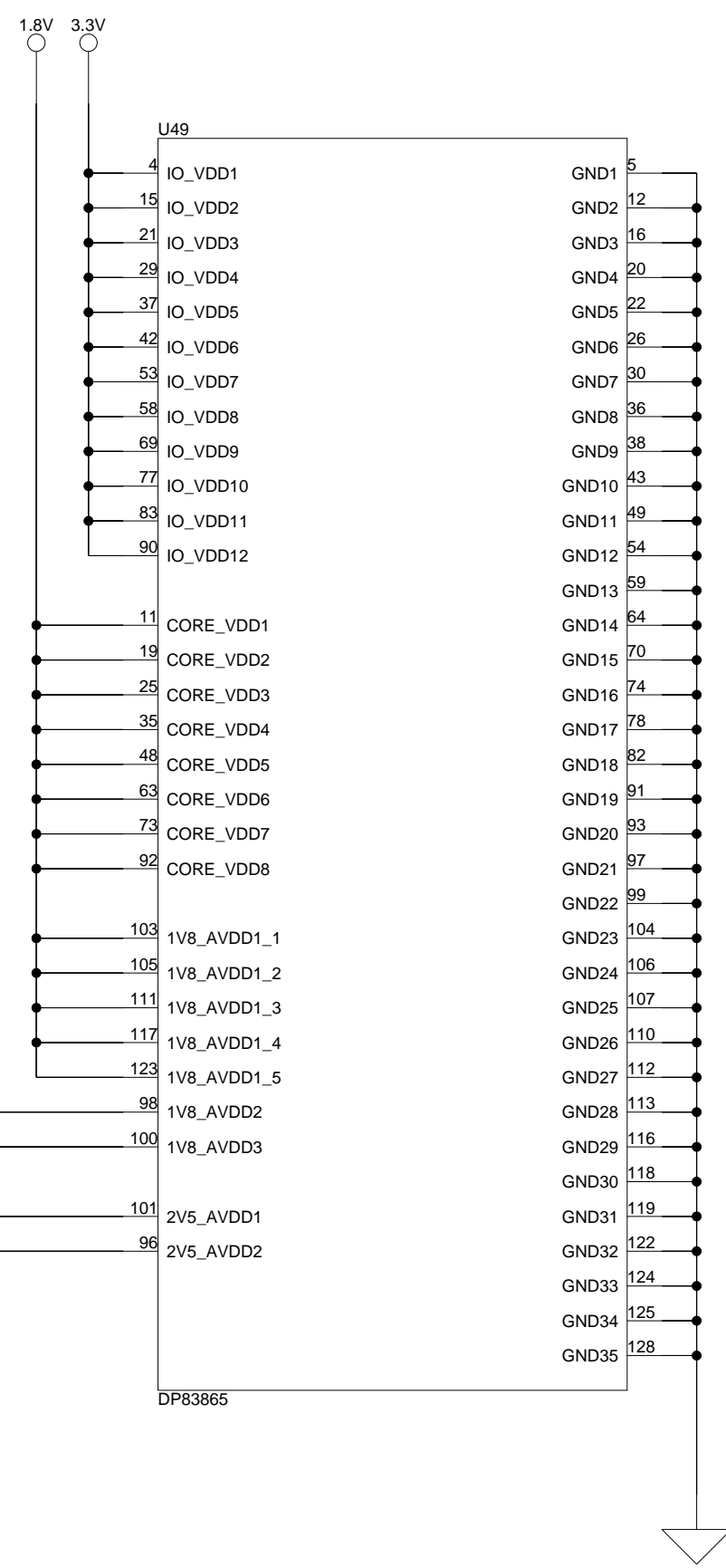
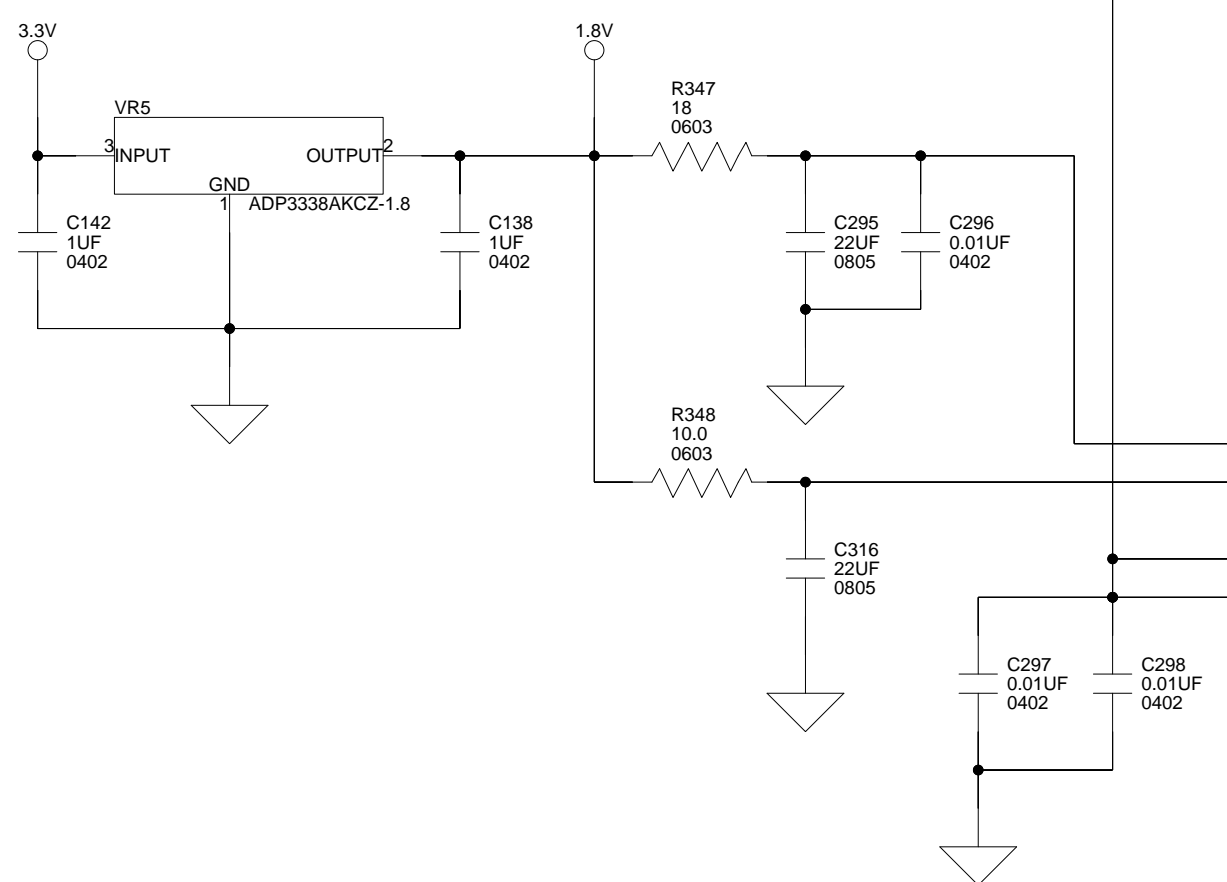
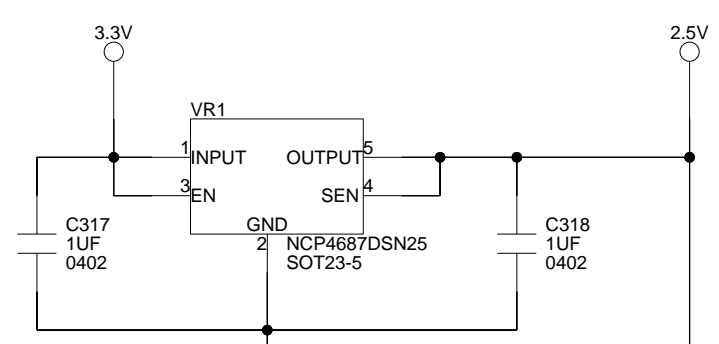
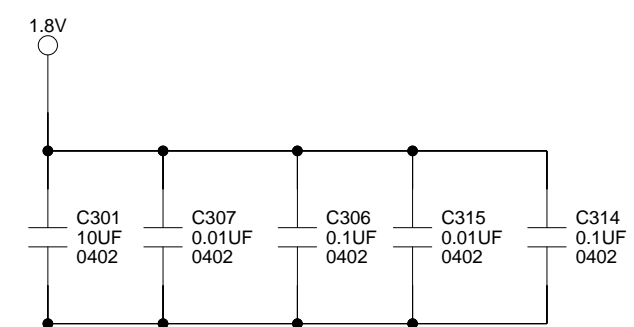
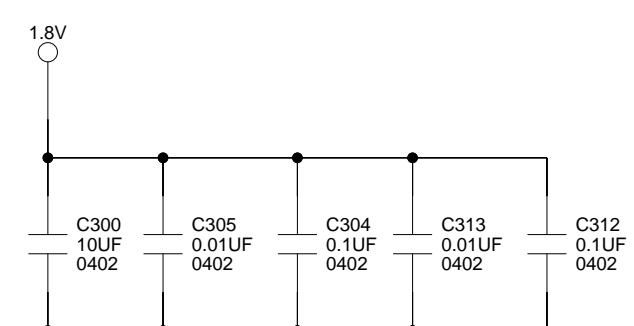
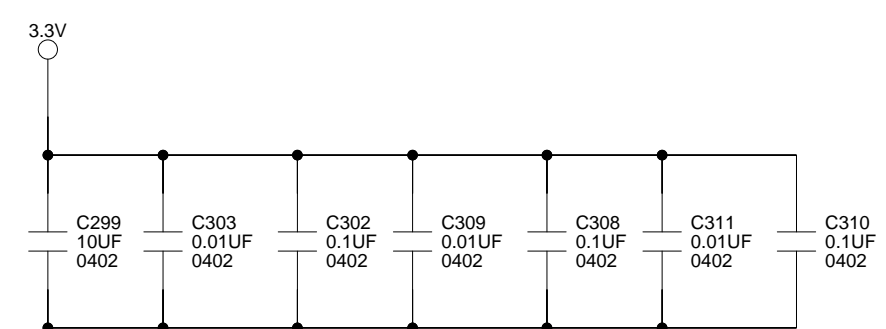
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT DP83865			
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 13		of 28

A

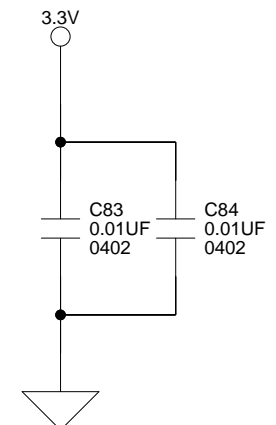
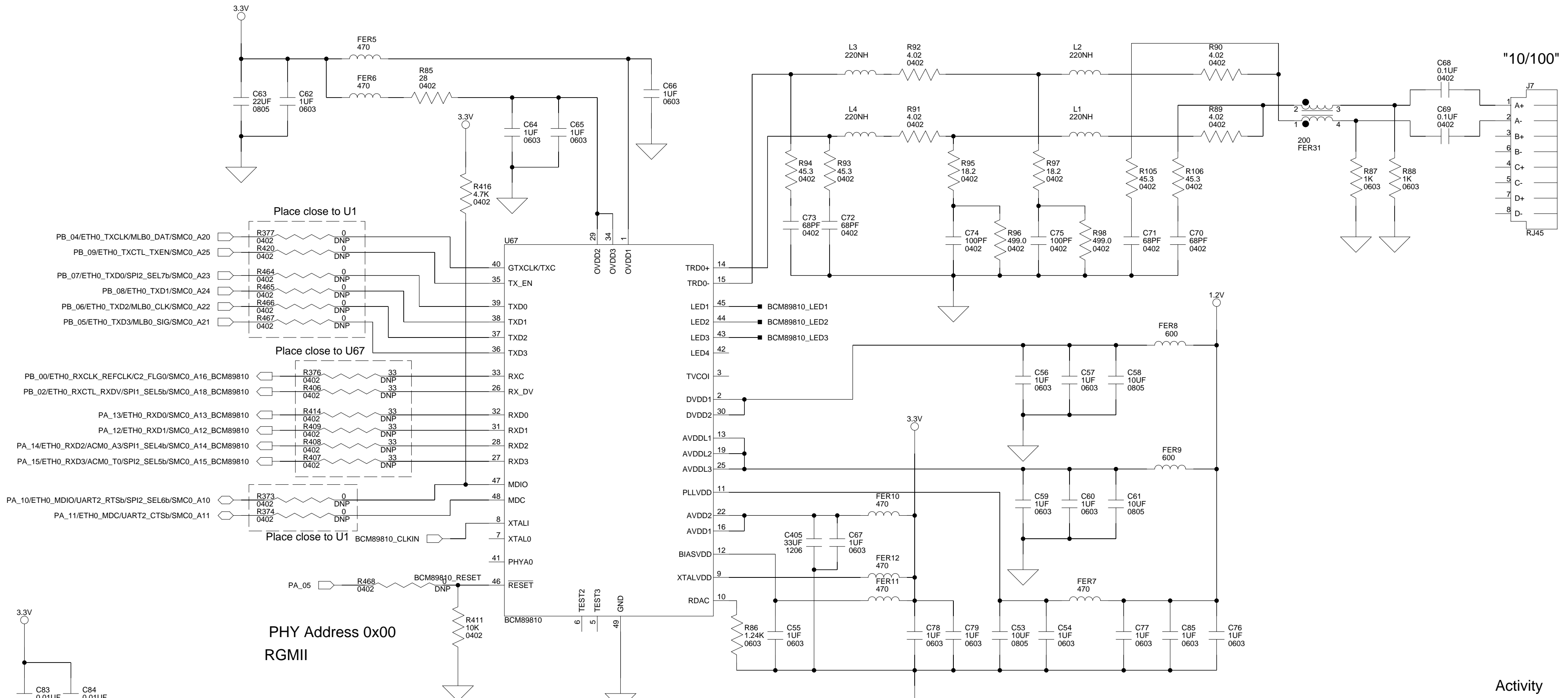
B

C

D

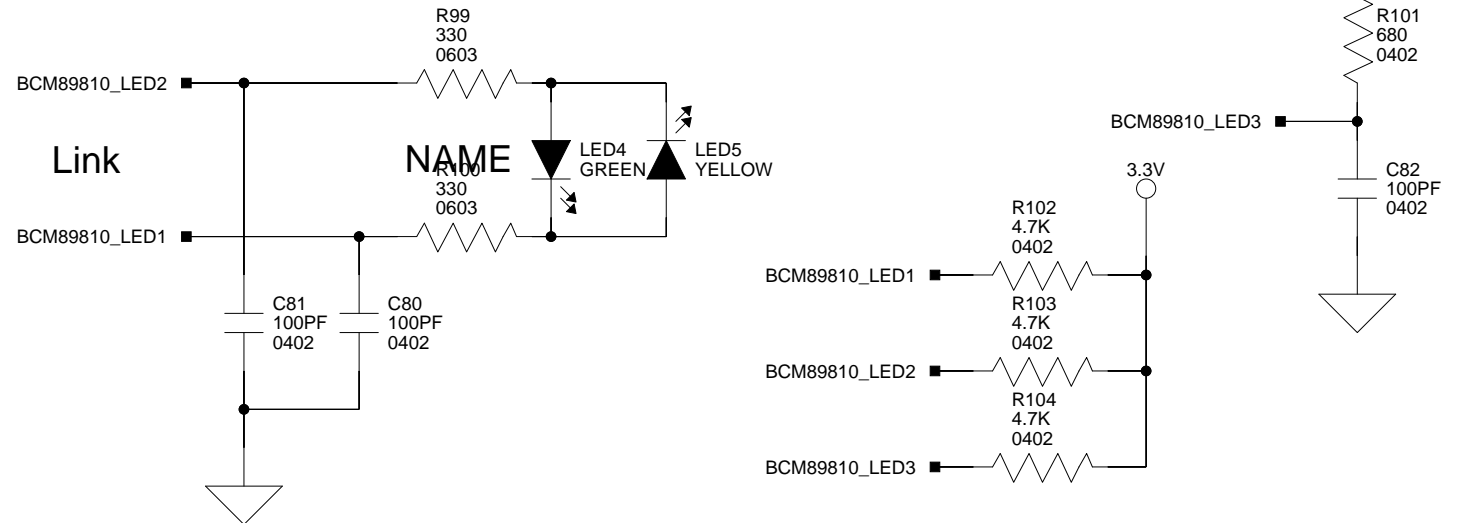
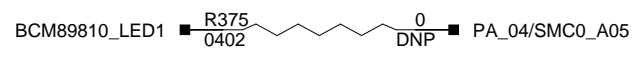


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT DP83865 Power	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 14		of 28

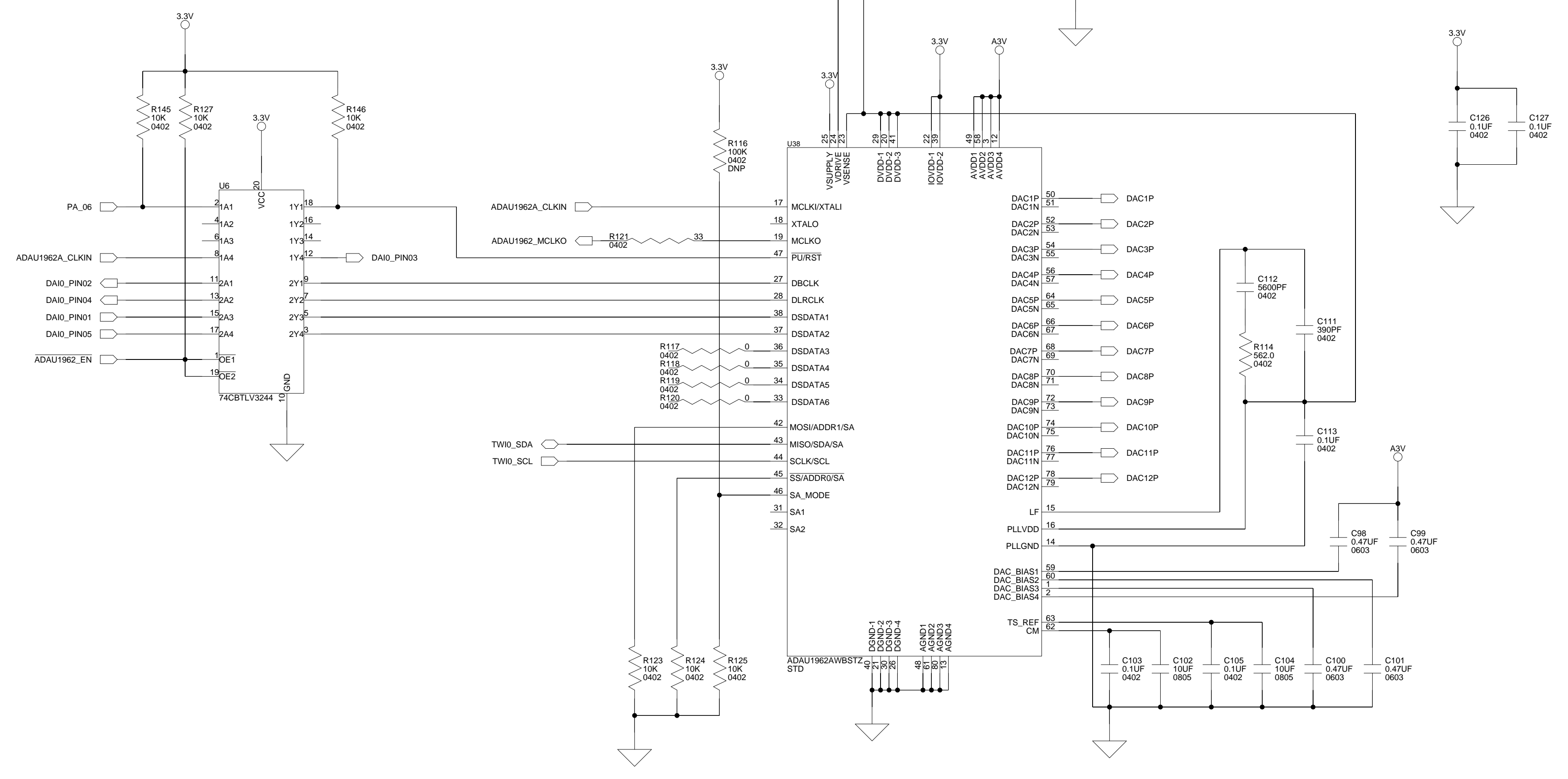


Set bit 10 of register 0x00 to 1 to put into isolate mode.

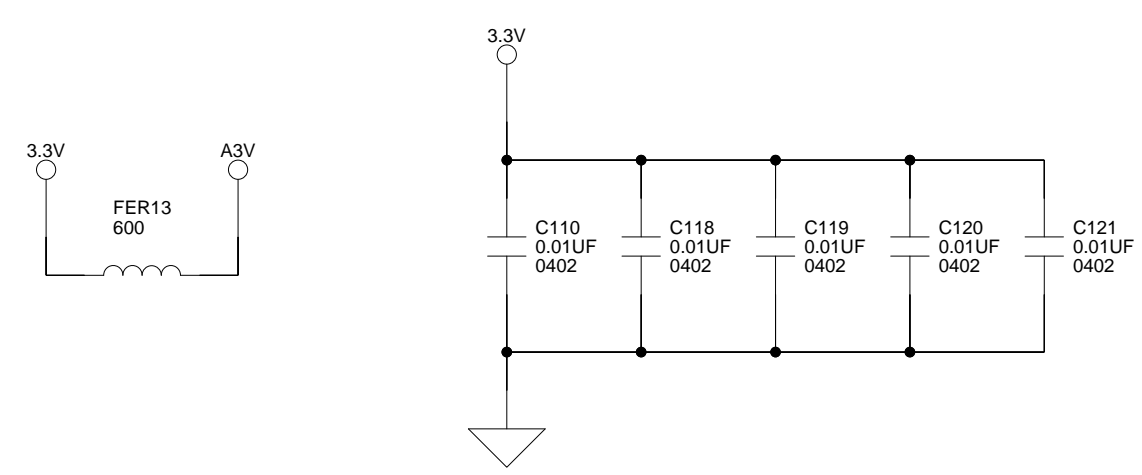
Set bit 5 of register 0x18 (Shadow 010) to 1 to put into super isolate mode.



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT BCM89810	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 15		of 28



Check for extender conflict
 TWI Address 0000100x
 x is the R/W bit. Read - 1, Write - 0



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT ADAU1962A	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 16		of 28

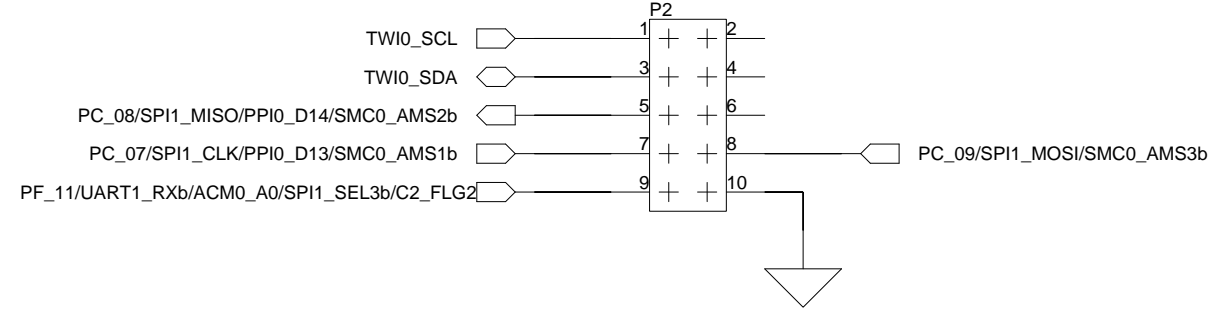
A

B

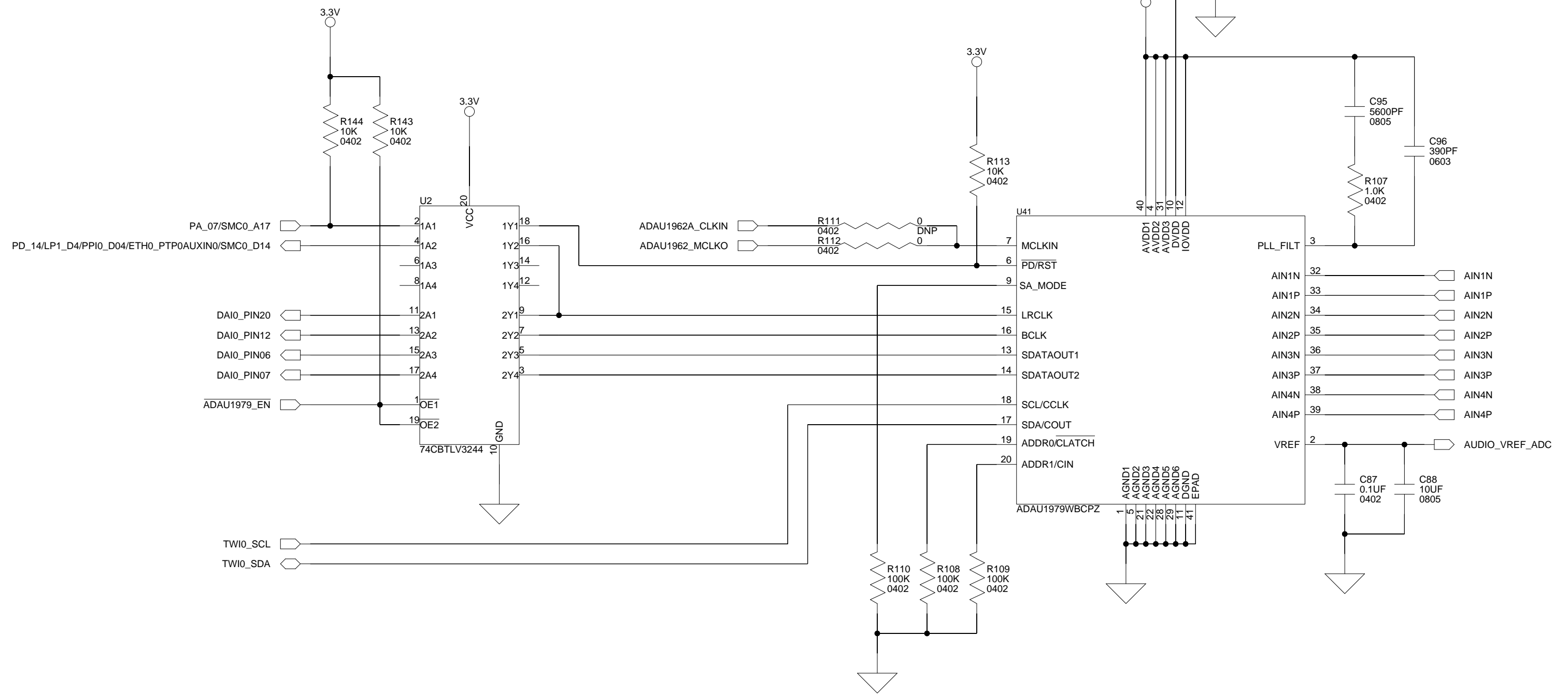
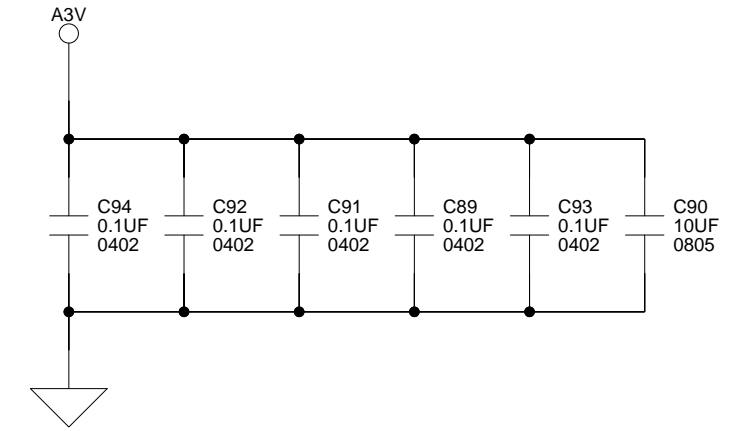
C

D

"SIGMA STUDIO"



Connector for testing out ADC/DACs



Check for extender conflict

TWI Address 0010001x
x is the R/W bit. Read - 1, Write - 0

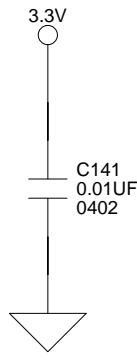
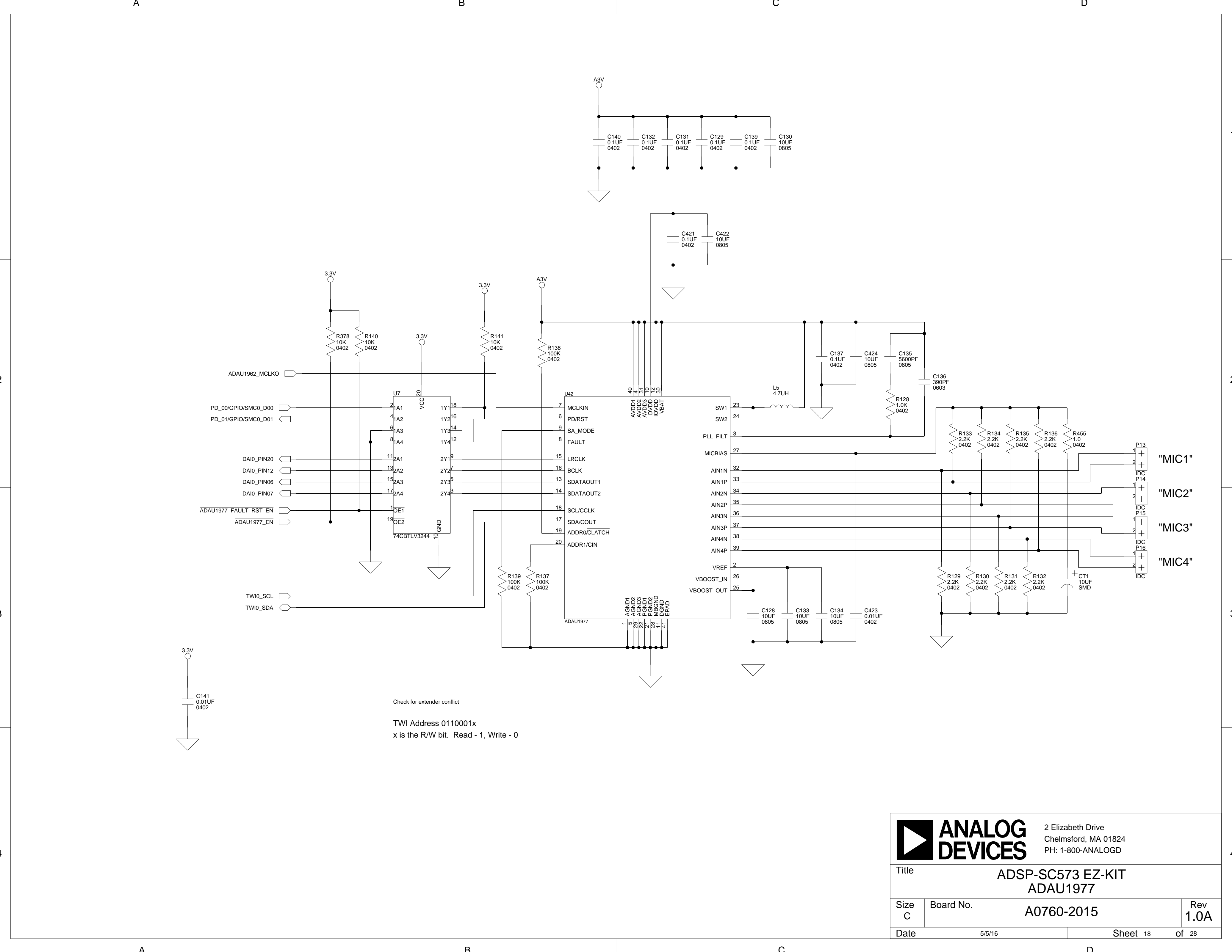
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT ADAU1979	
Size C	Board No. A0760-2015	Rev 1.0A	
Date	5/5/16	Sheet	17 of 28

A


B

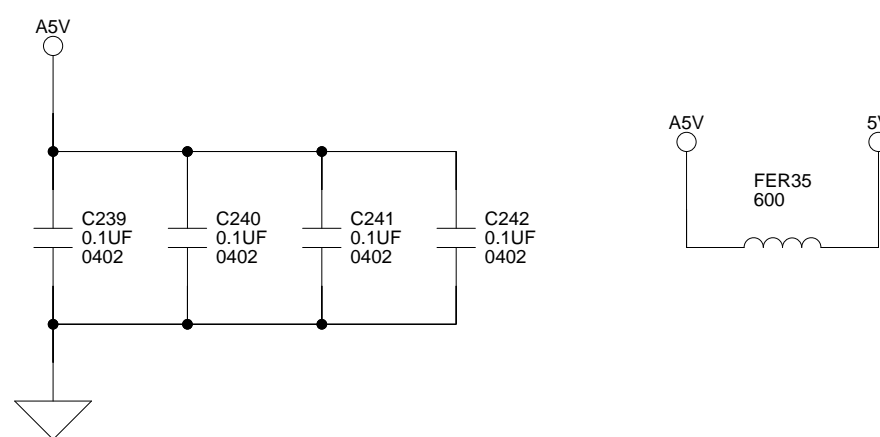
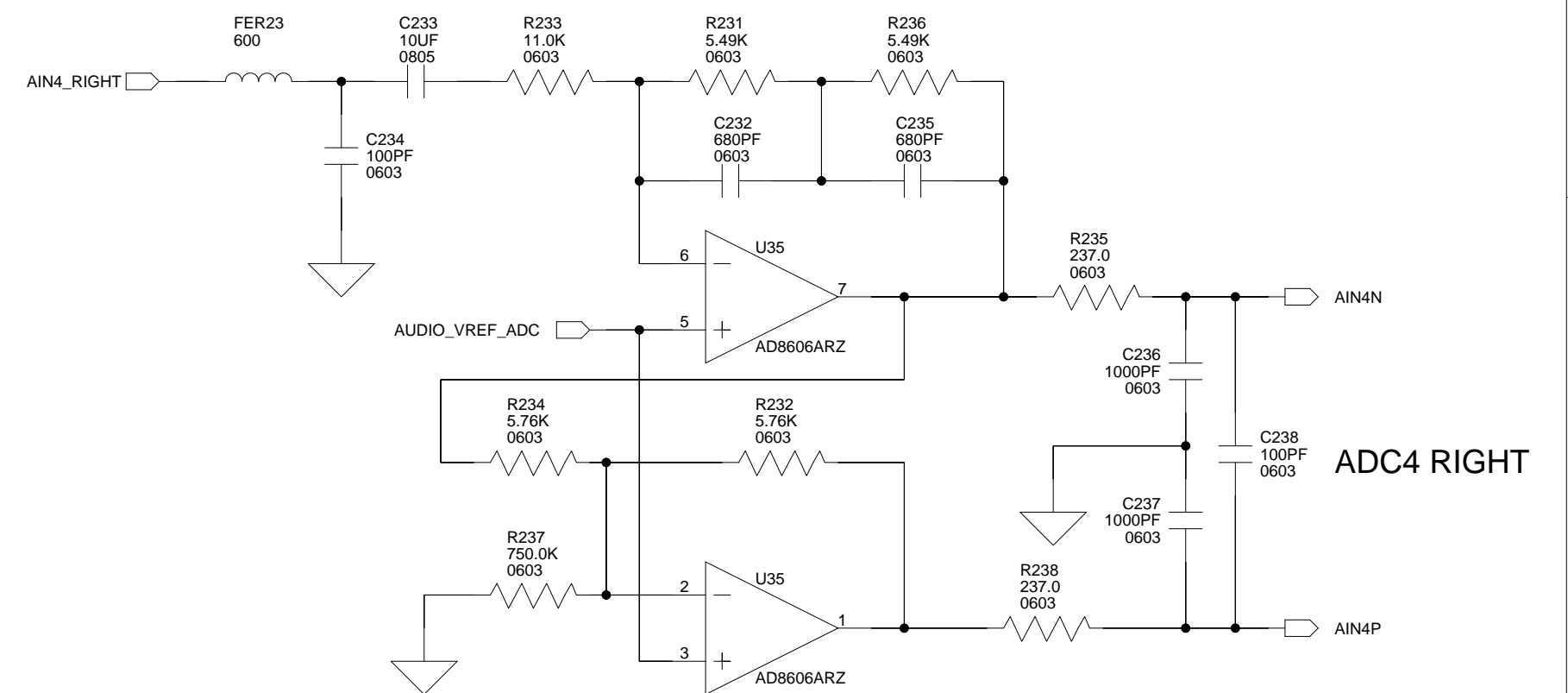
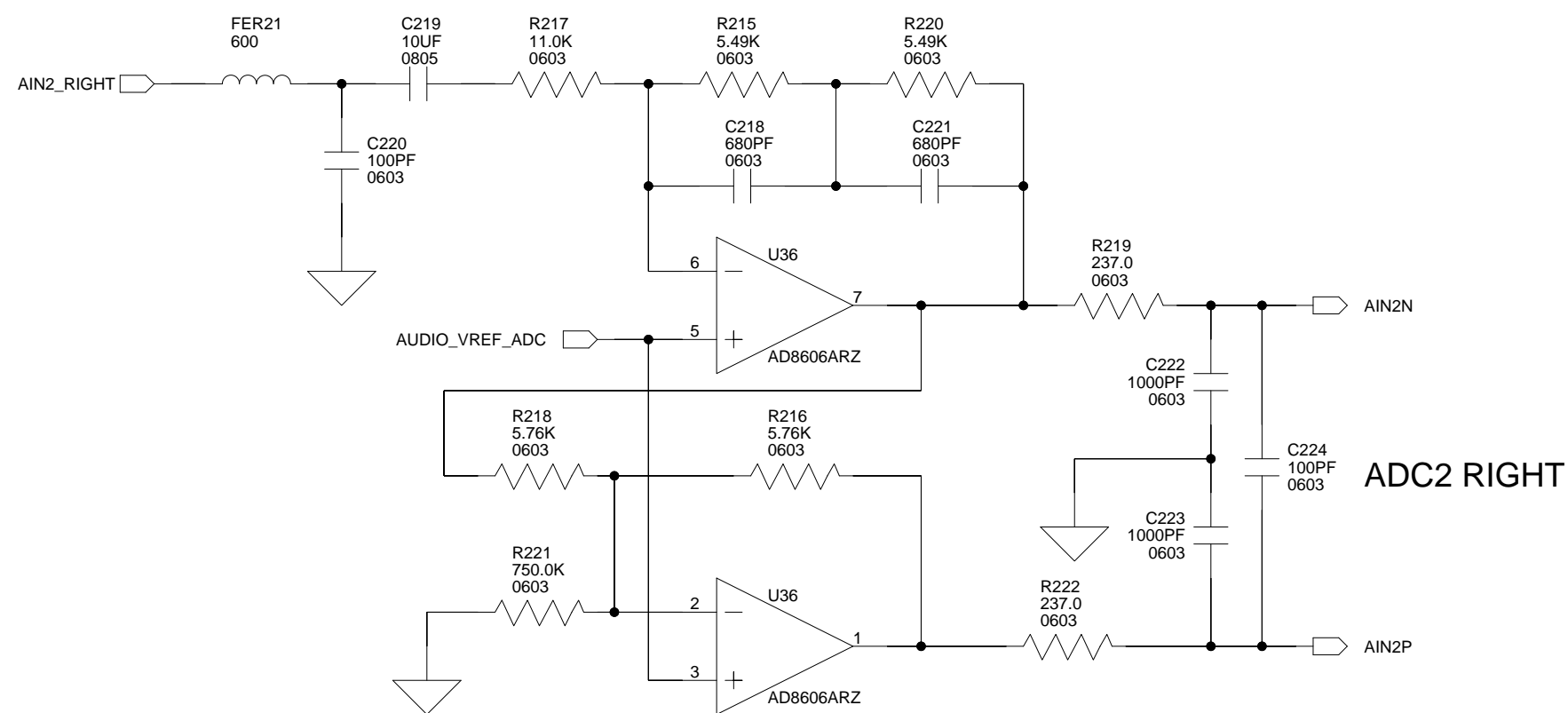
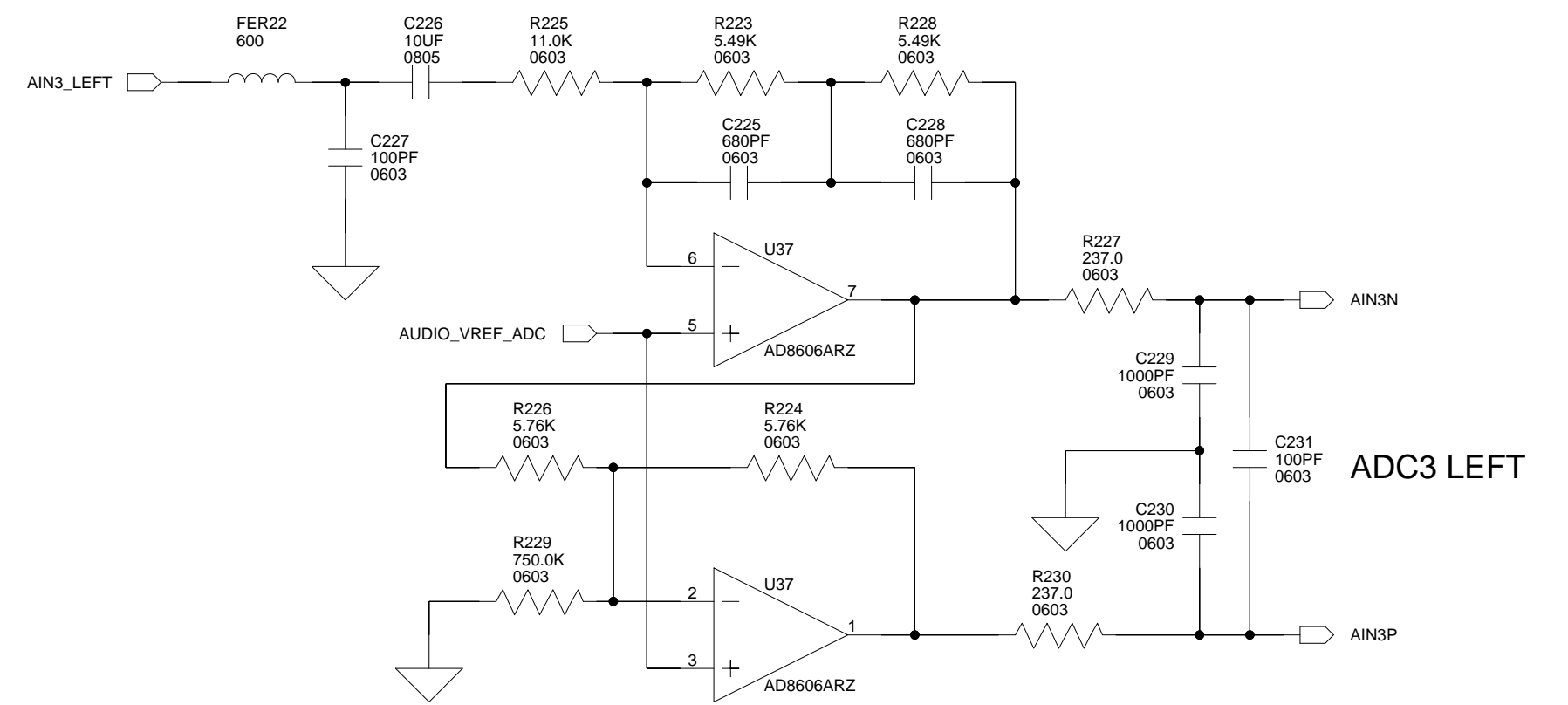
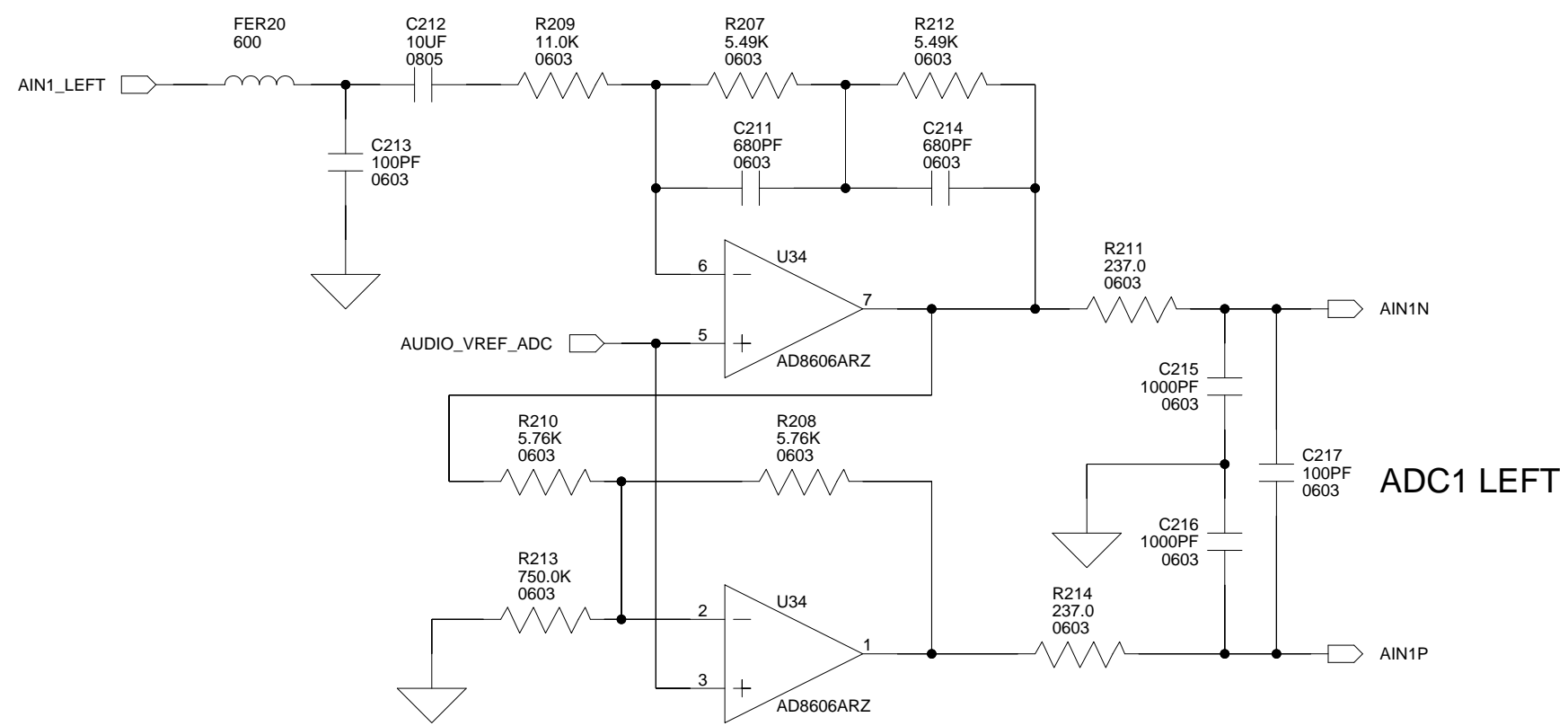
C


D

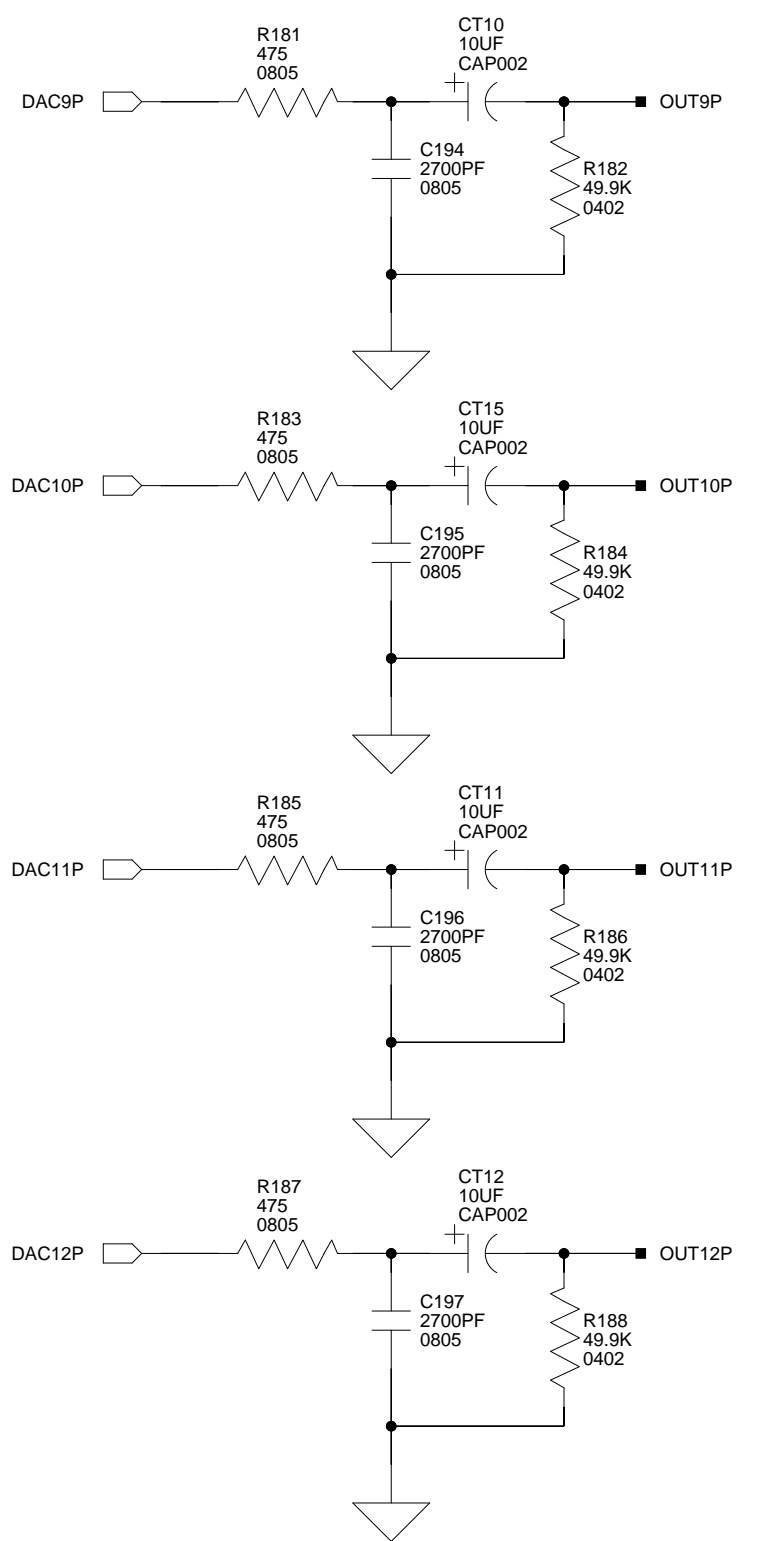
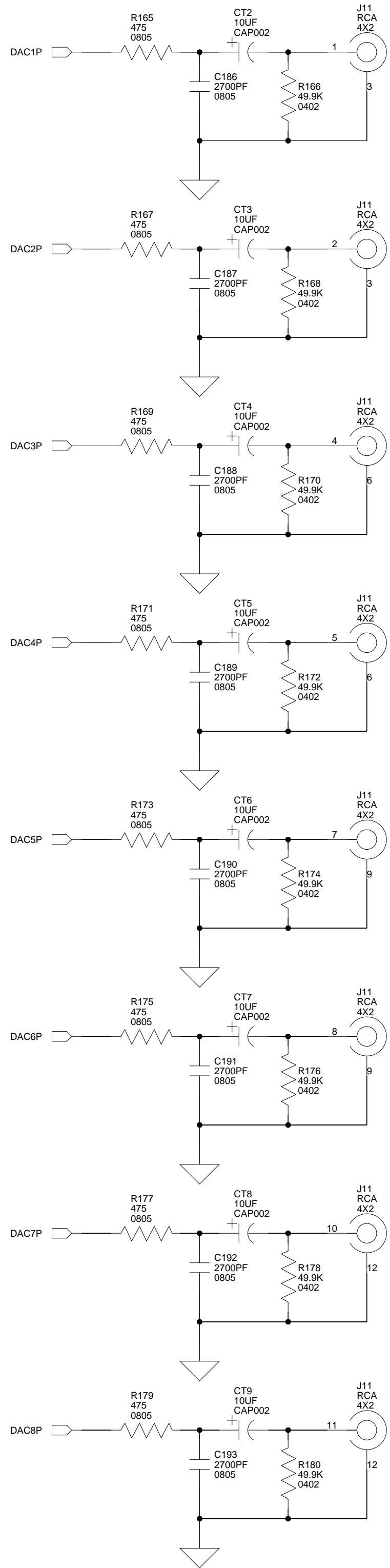


Check for extender conflict
 TWI Address 0110001x
 x is the R/W bit. Read - 1, Write - 0

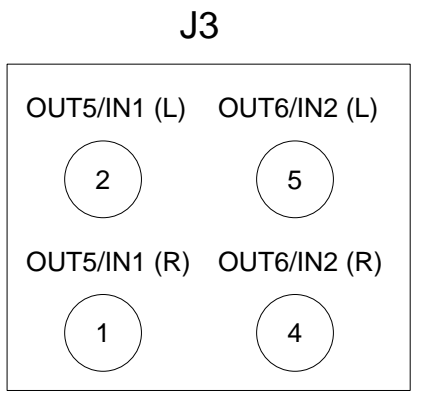
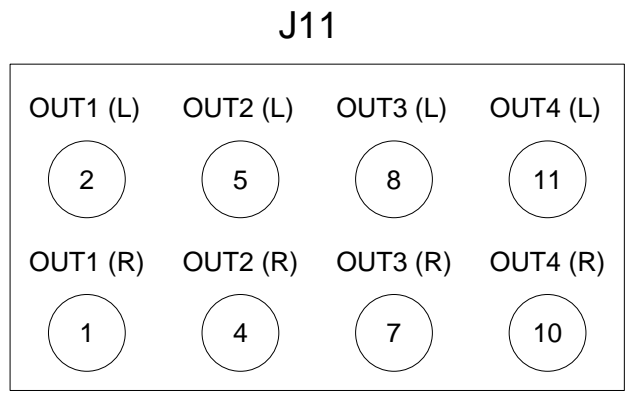
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT ADAU1977			
Size C	Board No. A0760-2015	Rev 1.0A	
Date	5/5/16	Sheet 18	of 28



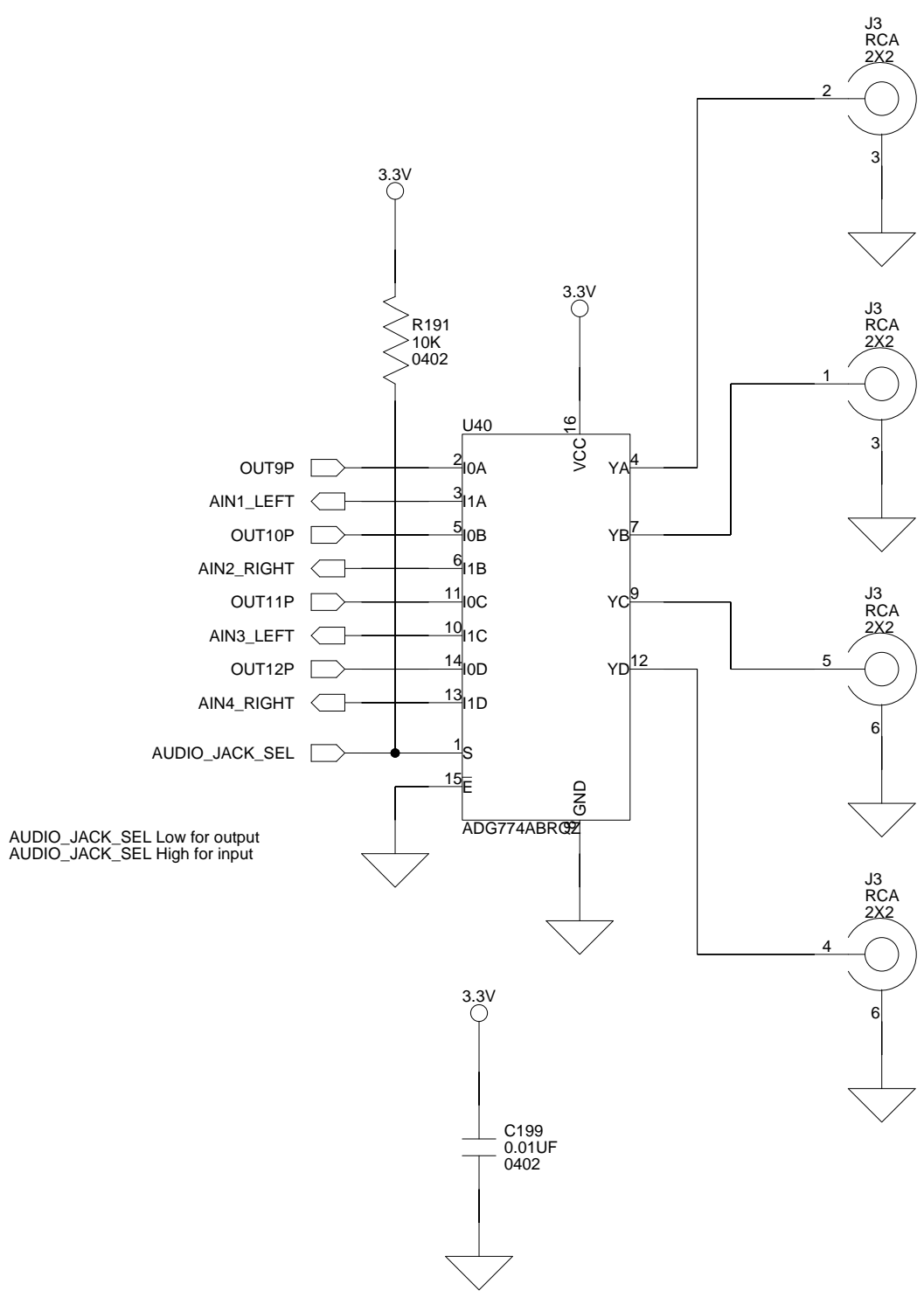
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT Audio Input	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 19		of 28



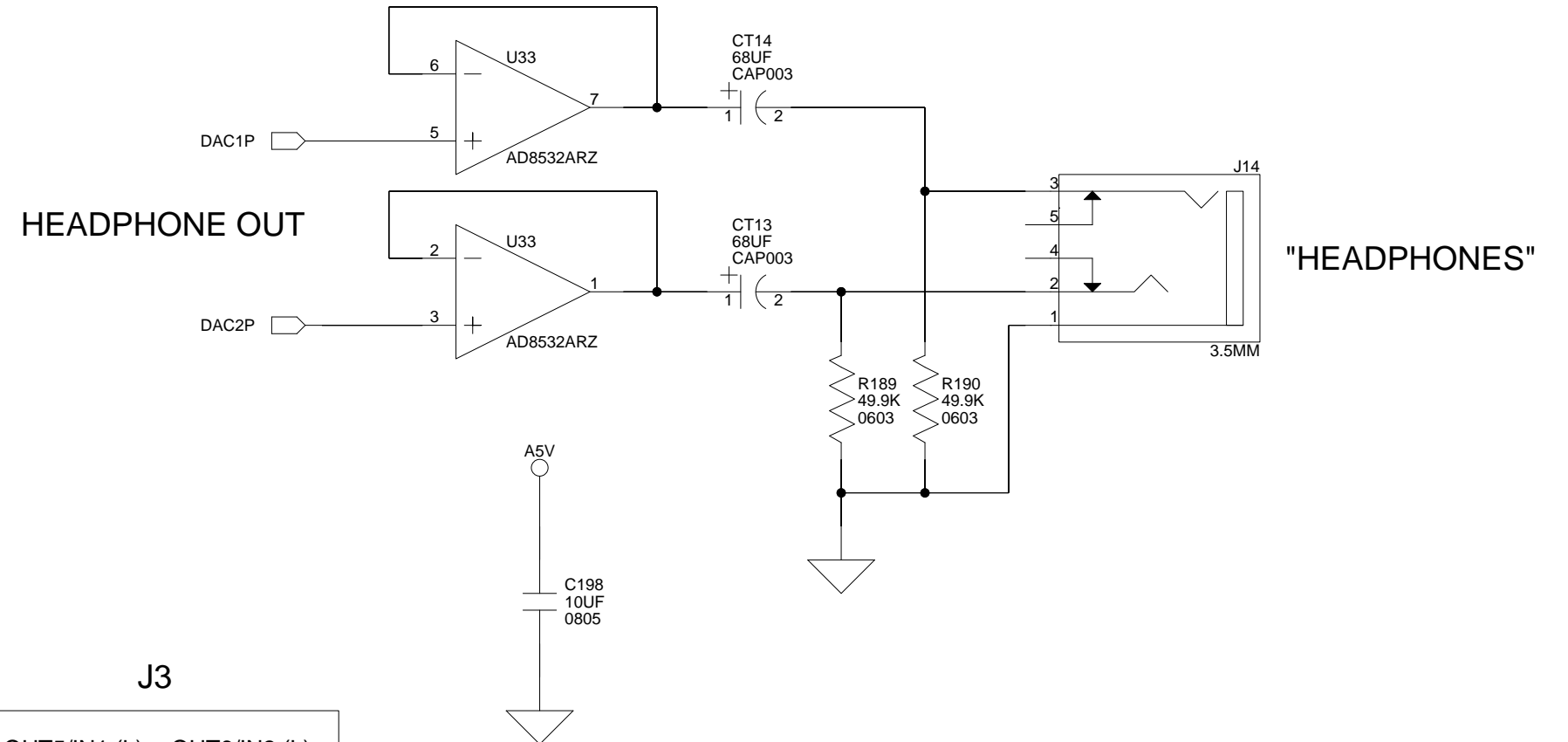
"INPUT"



NOTE: THE NUMBER INSIDE EACH OF THE CIRCLES IS THE ACTUAL PIN NUMBER FOR THE RESPECTIVE CONNECTOR.



"INPUT/OUTPUT"



HEADPHONE OUT

"HEADPHONES"

		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT Audio Connectors			
Size C	Board No. A0760-2015	Rev 1.0A	
Date	5/5/16	Sheet 20	of 28

A

B

C

D

1

1

2

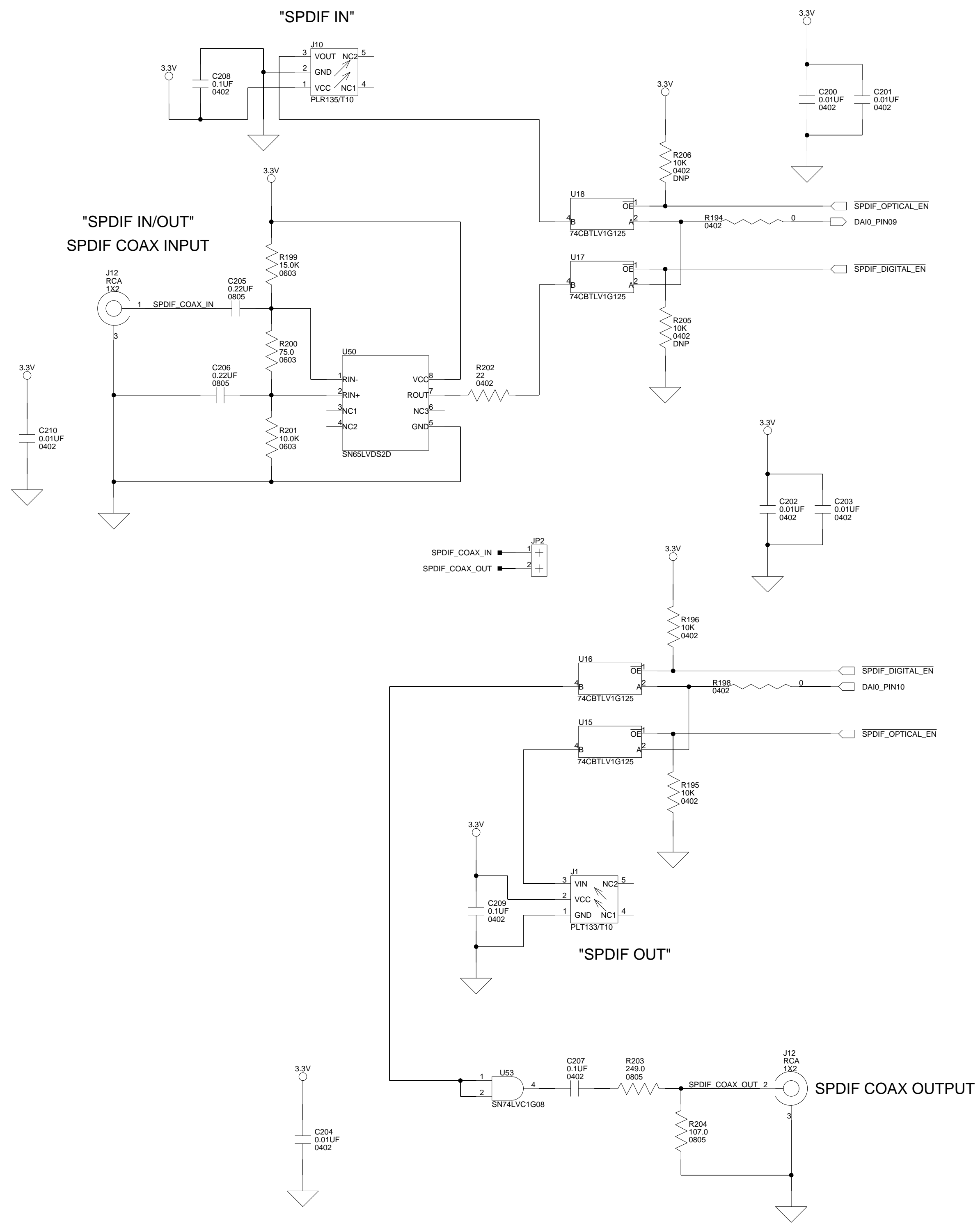
2

3

3


4

4




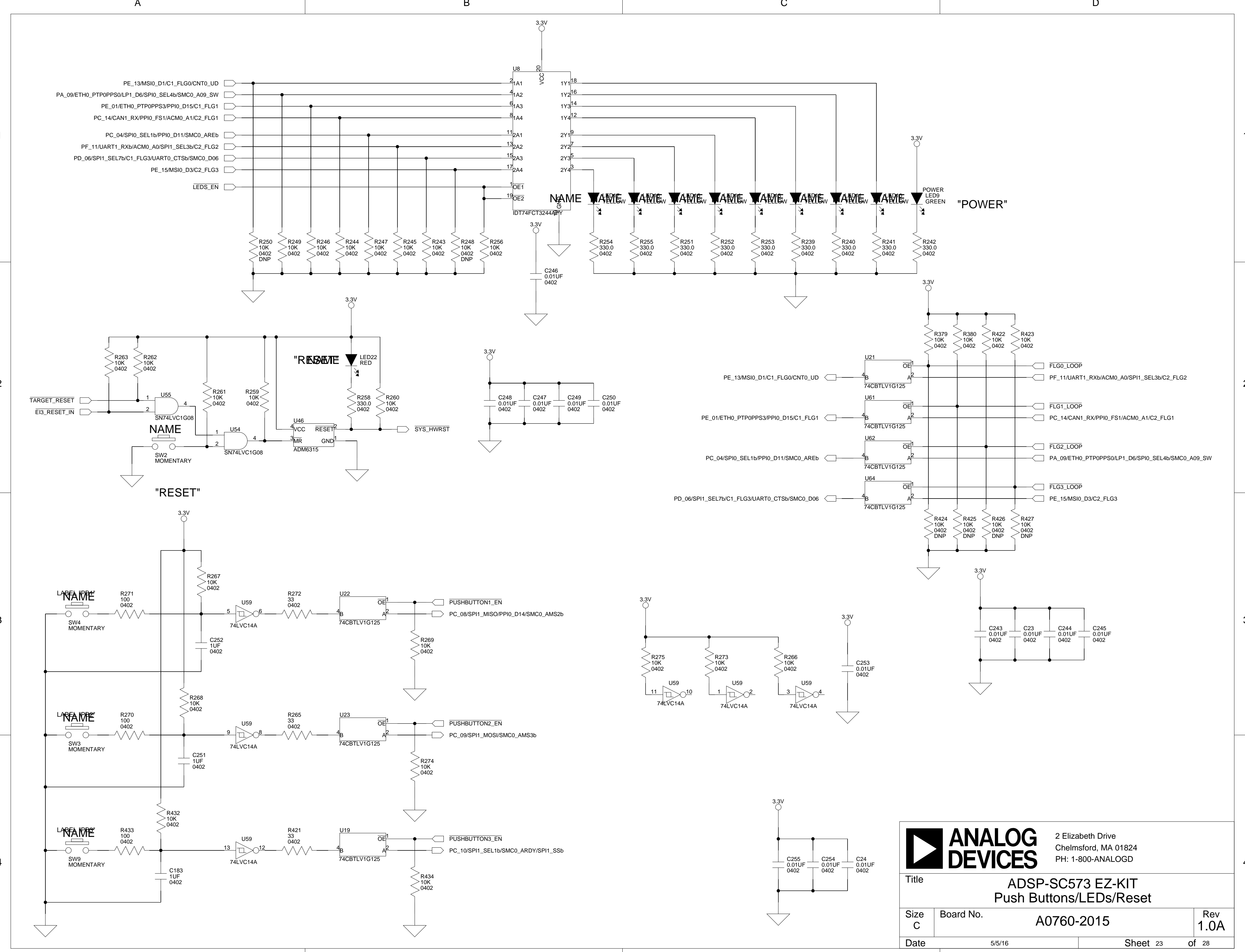
HU Data


Debug

		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT SPDIF	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 21		of 28

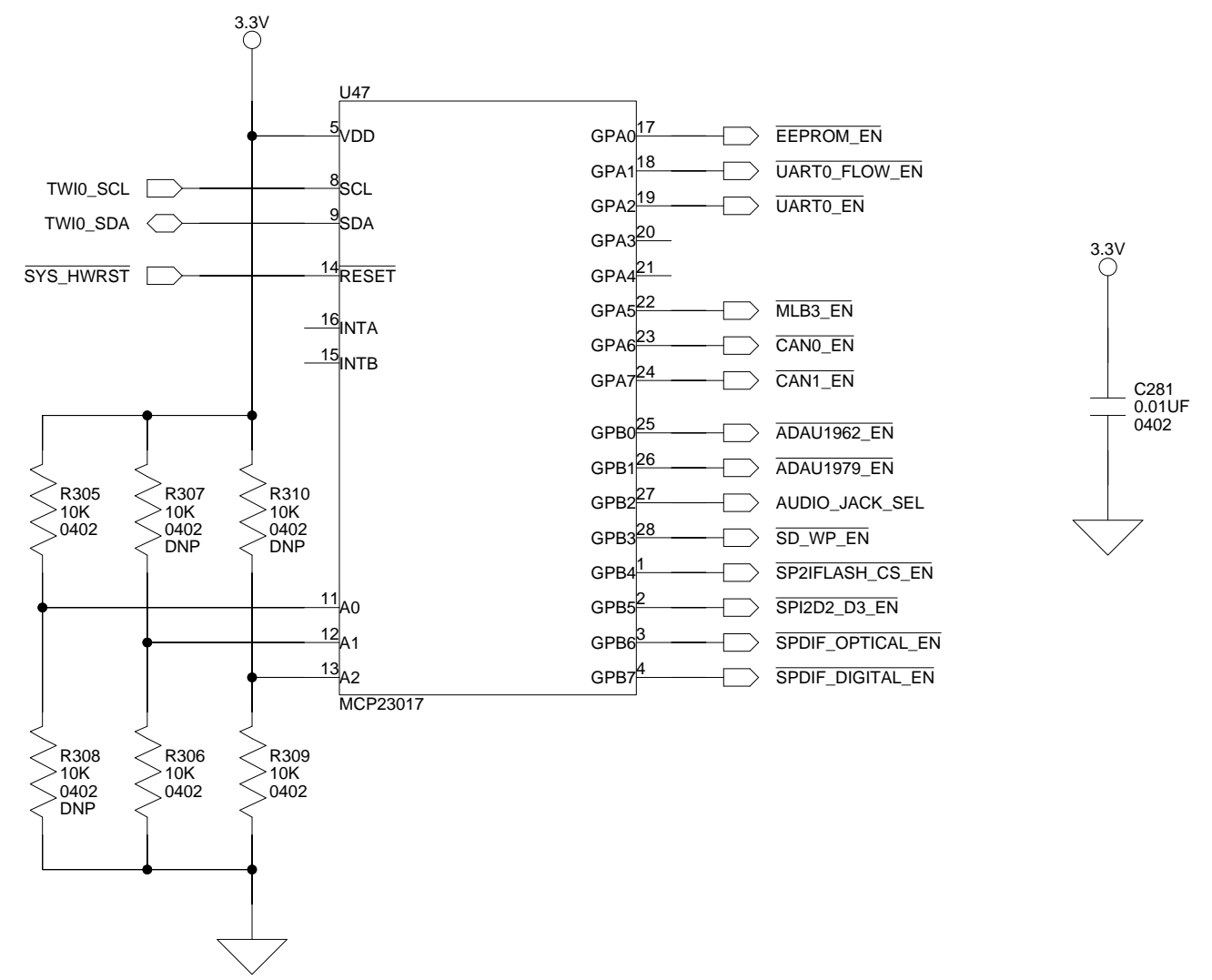
Please contact your nearest ADI sales office to complete the Non-Disclosure Agreement (NDA) required to receive additional A2B technical information.

		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT A2B Master/Slave Node A			
Size C	Board No.	A0760-2015	Rev 1.0A
Date	5/5/16	Sheet 22	of 28

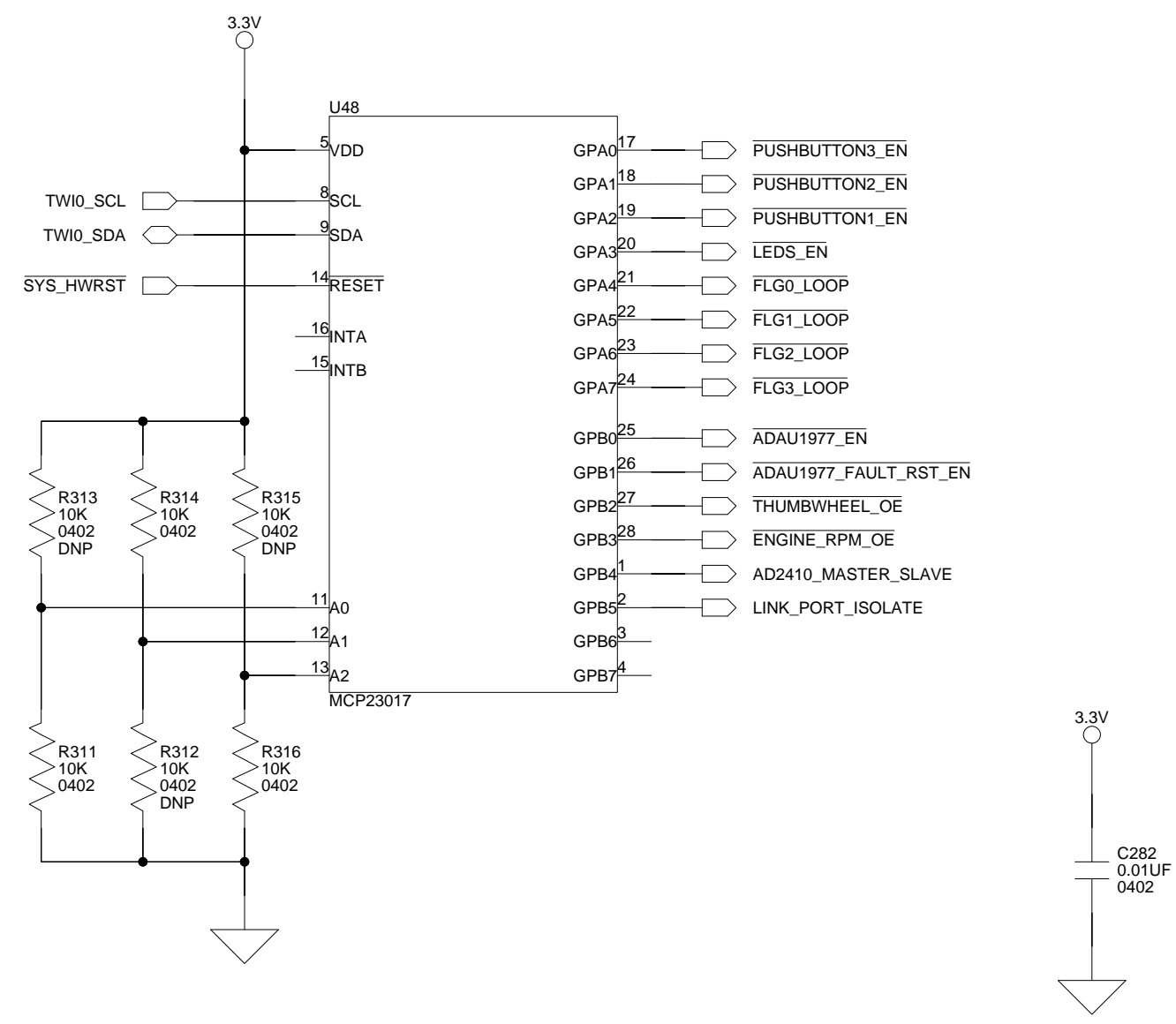



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT Push Buttons/LEDs/Reset	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 23 of 28		

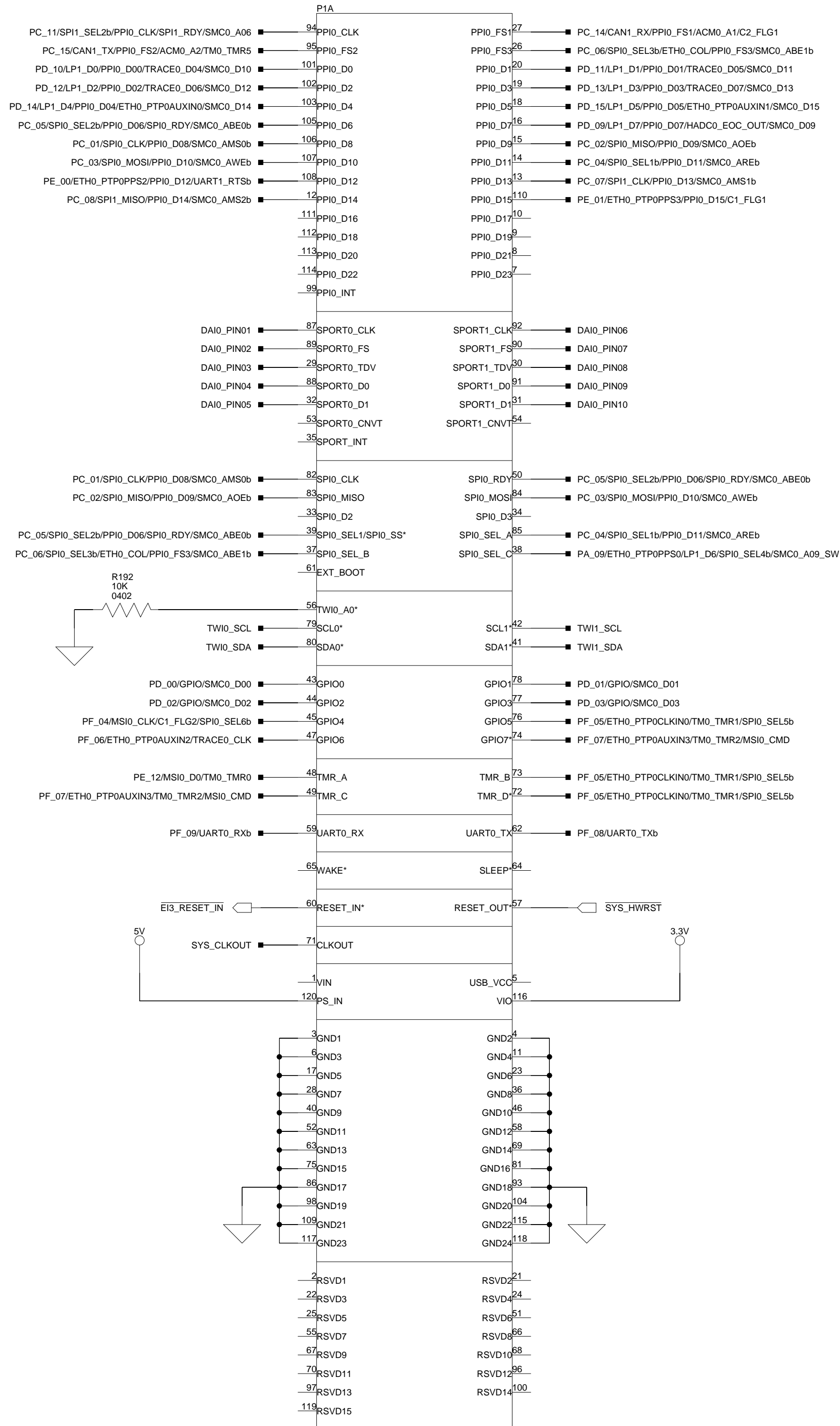
TWI Address 0100001x
 x is the R/W bit. Read - 1, Write - 0




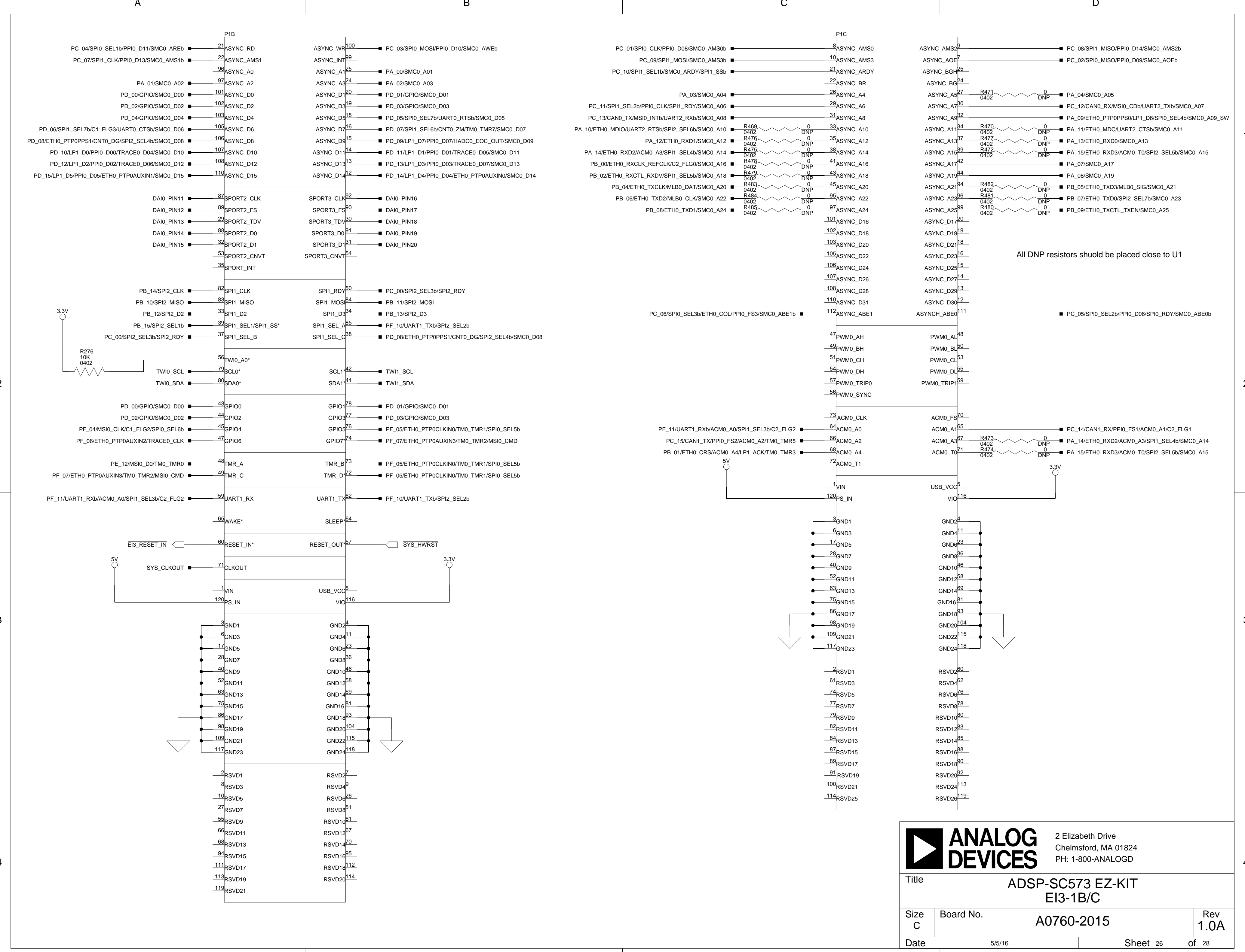
TWI Address 0100010x
 x is the R/W bit. Read - 1, Write - 0




		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT SoftConfig			
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 24		of 28



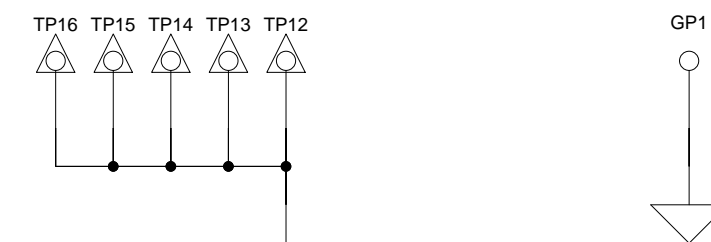
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT EI3-1A	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 25 of 28		



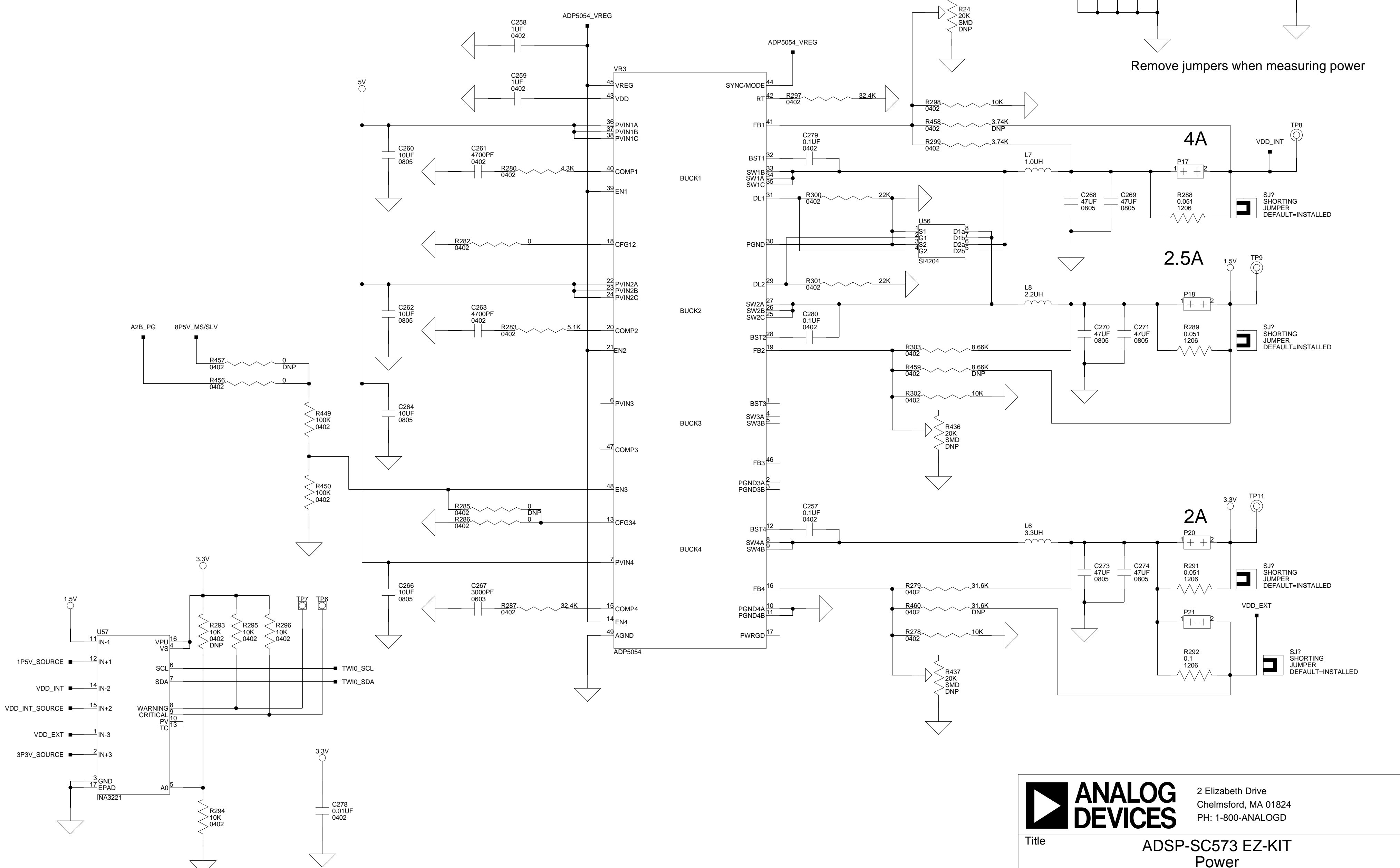
		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC573 EZ-KIT EI3-1B/C	
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 26 of 28		

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

LABEL "GND" ON ALL TPs

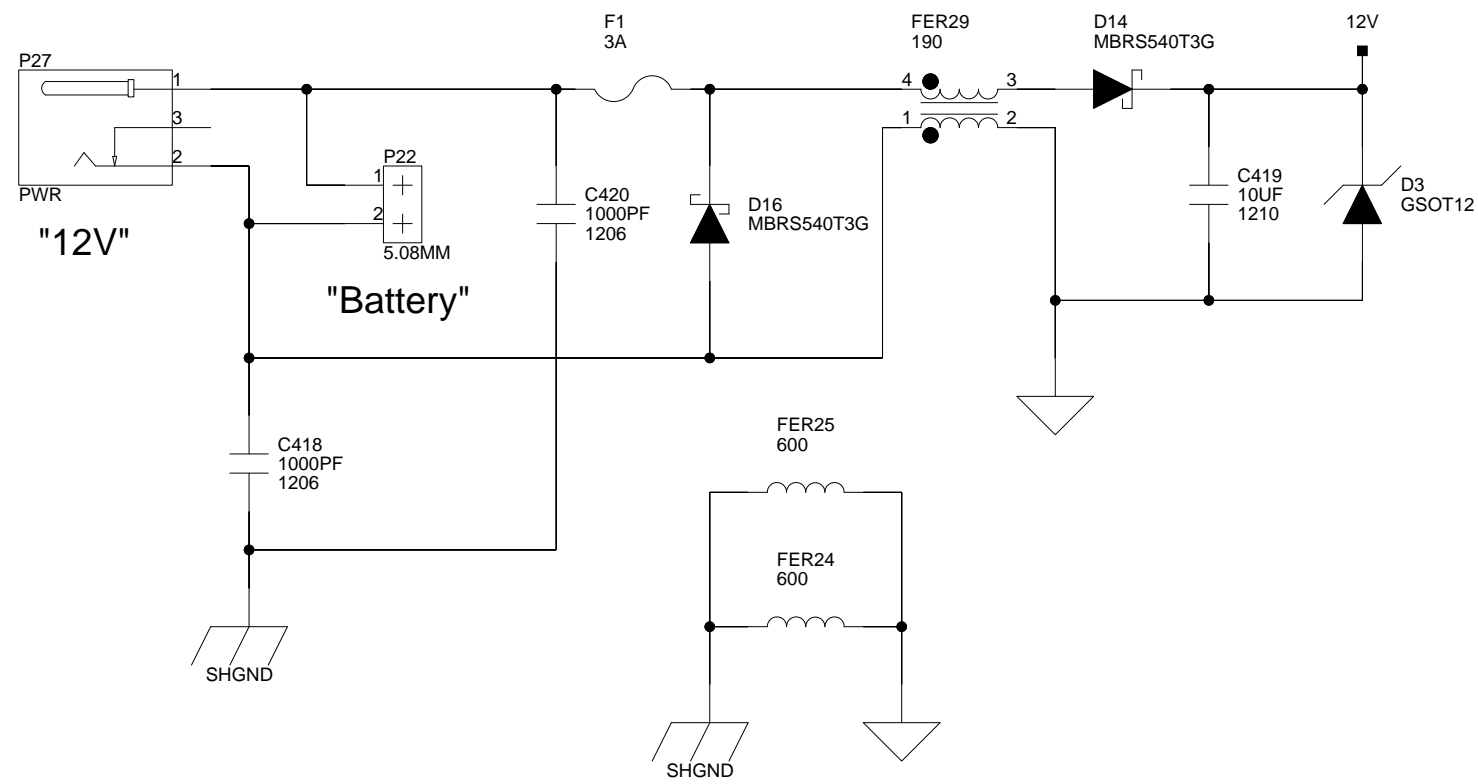


Remove jumpers when measuring power

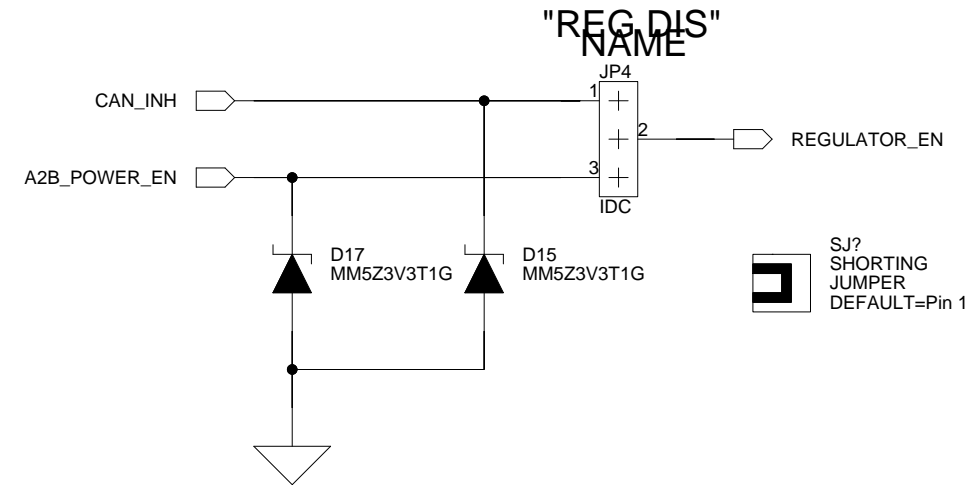
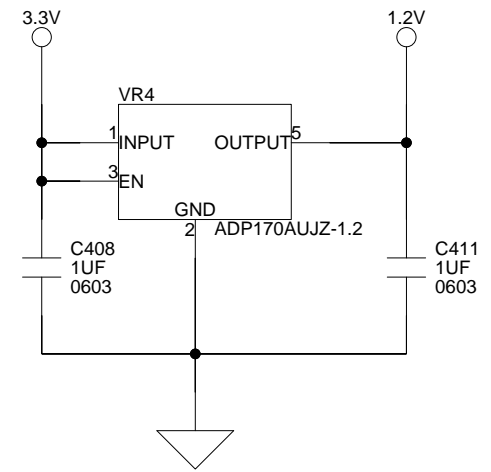
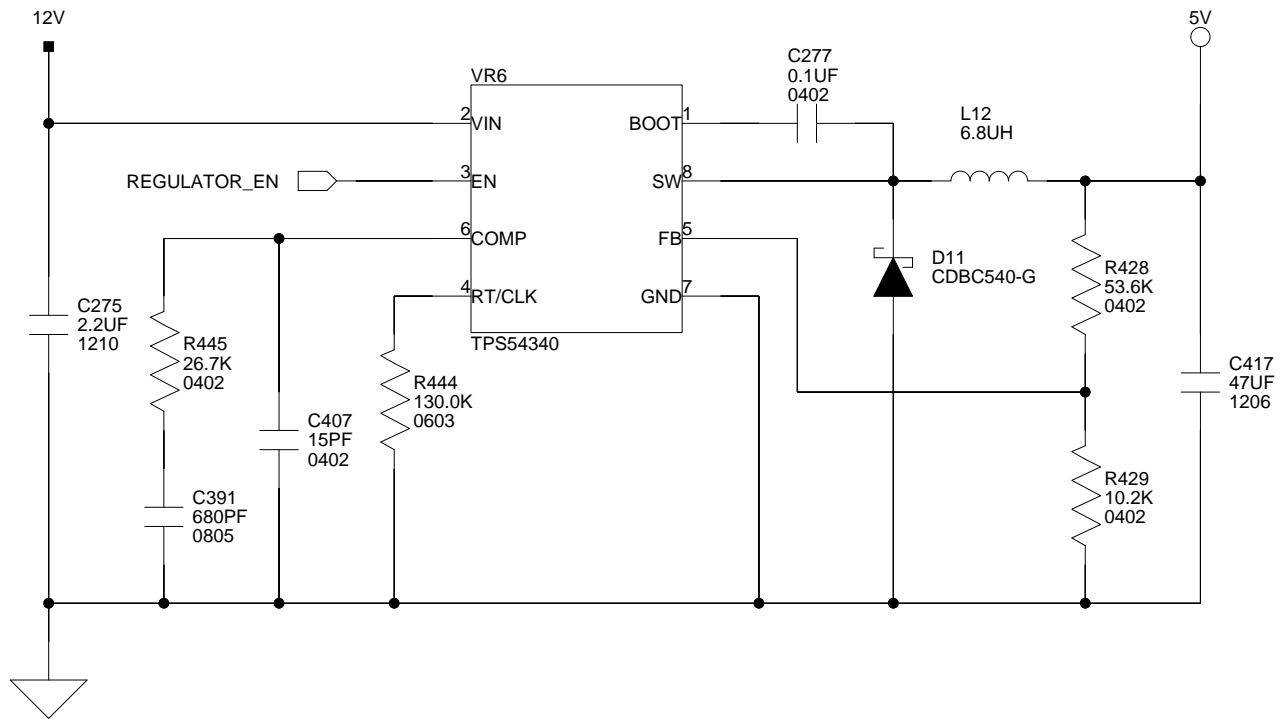
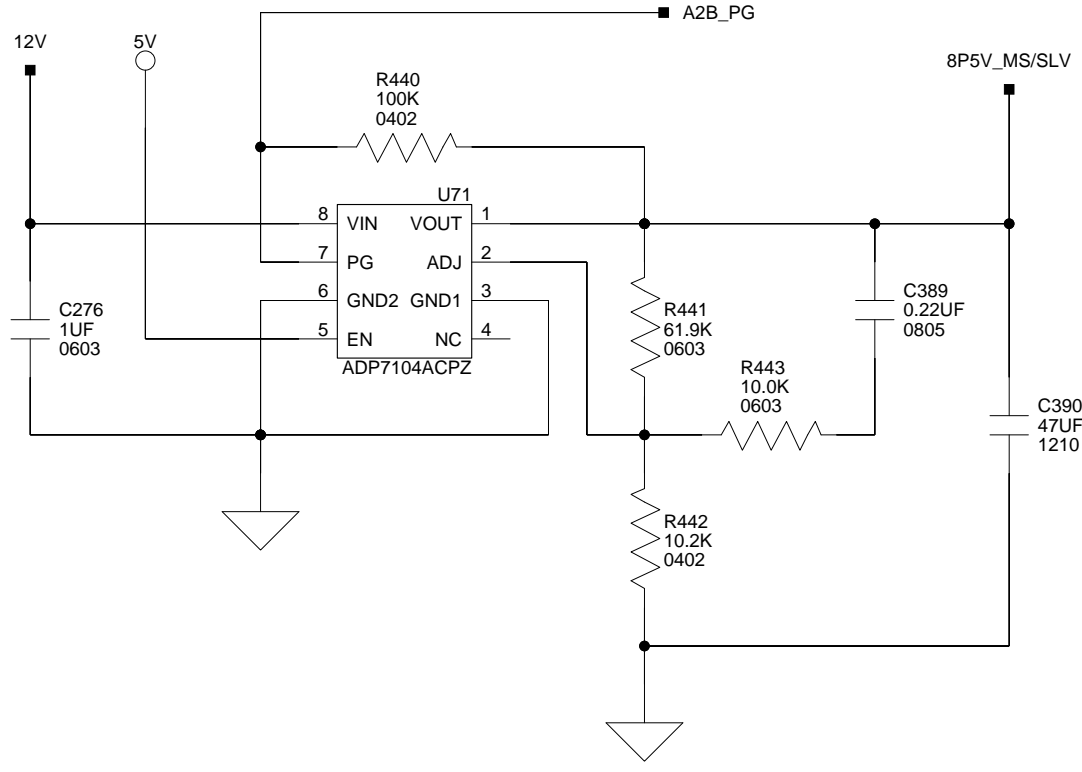


TWI address 1000 000x
 where x is the R/W bit. Read - 1, Write - 0

		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT Power			
Size C	Board No. A0760-2015	Rev 1.0A	
Date 5/5/16	Sheet 27		of 28



Power Sequence for A2B



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC573 EZ-KIT Battery/CAN/A2B Power			
Size C	Board No. A0760-2015	Rev 1.0A	
Date	5/5/16	Sheet 28	of 28