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ADSP-SC589 MINI Board Schematic

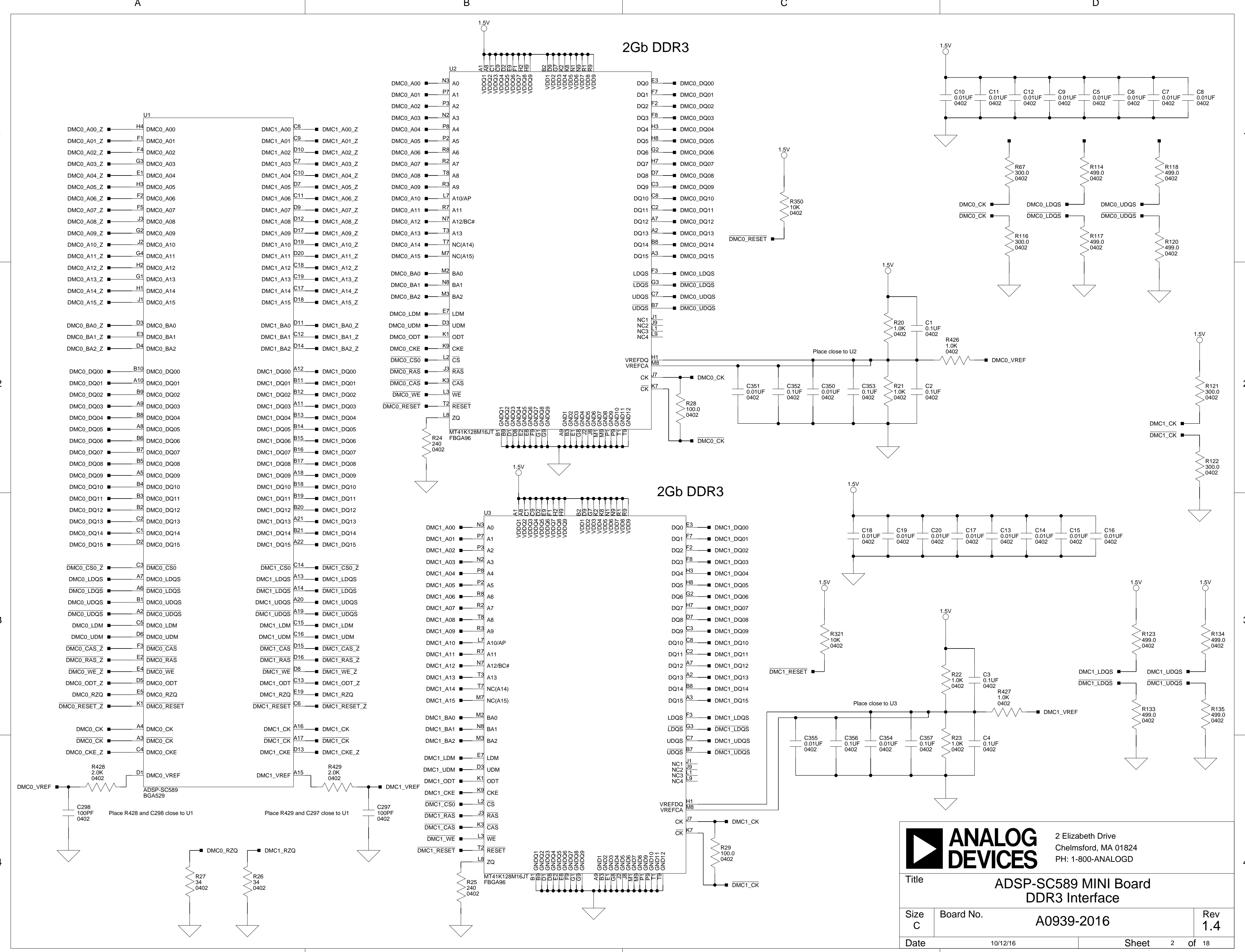
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Title		ADSP-SC589 MINI Board Title Block	
Size C	Board No.	A0939-2016	Rev 1.4
Date	10/12/16	Sheet	1 of 18


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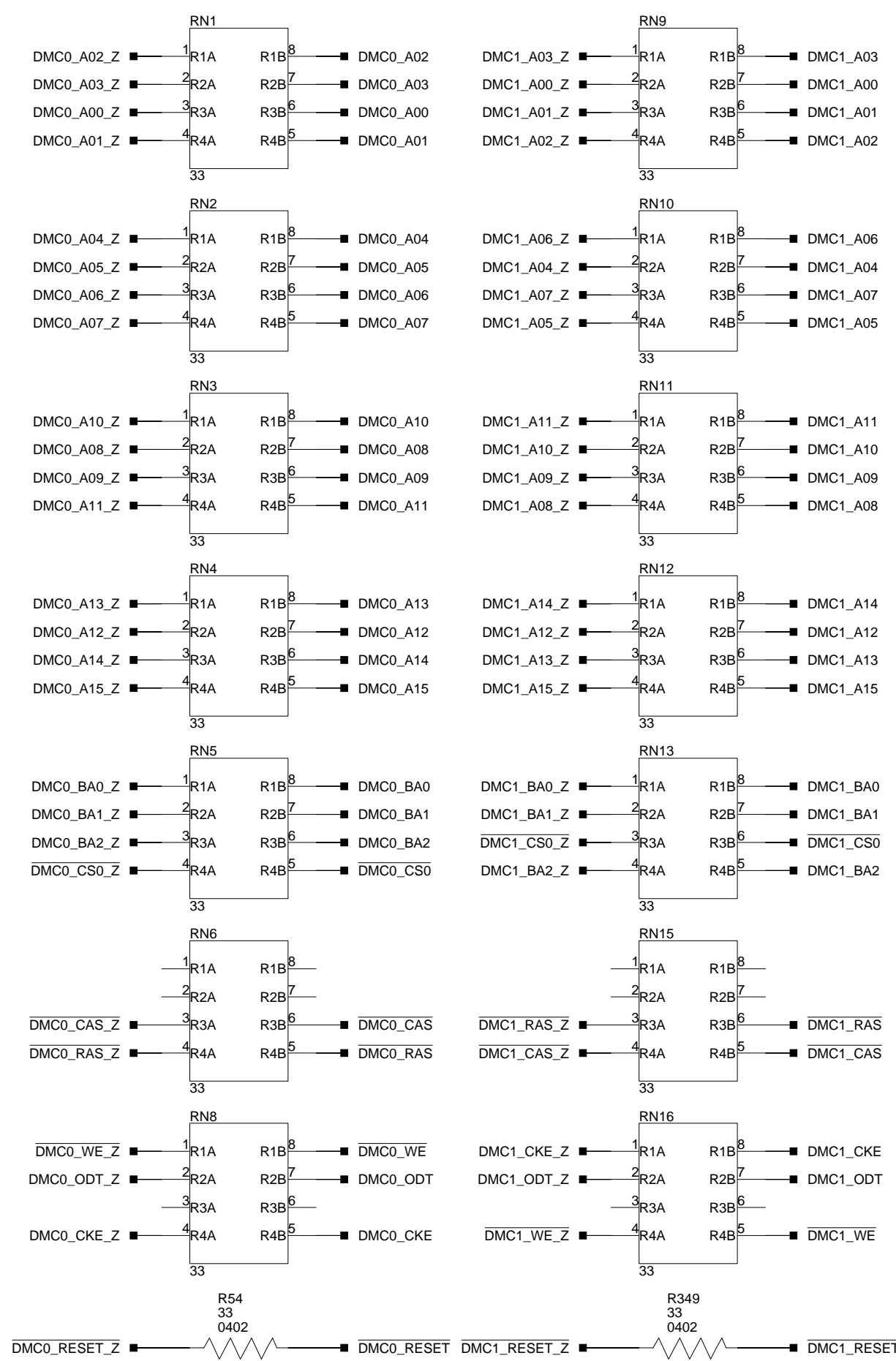
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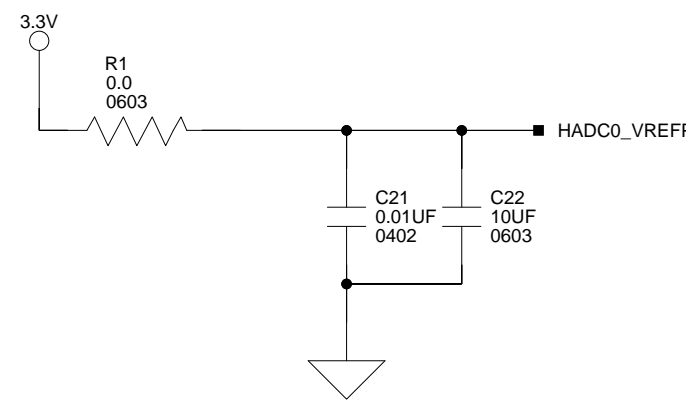
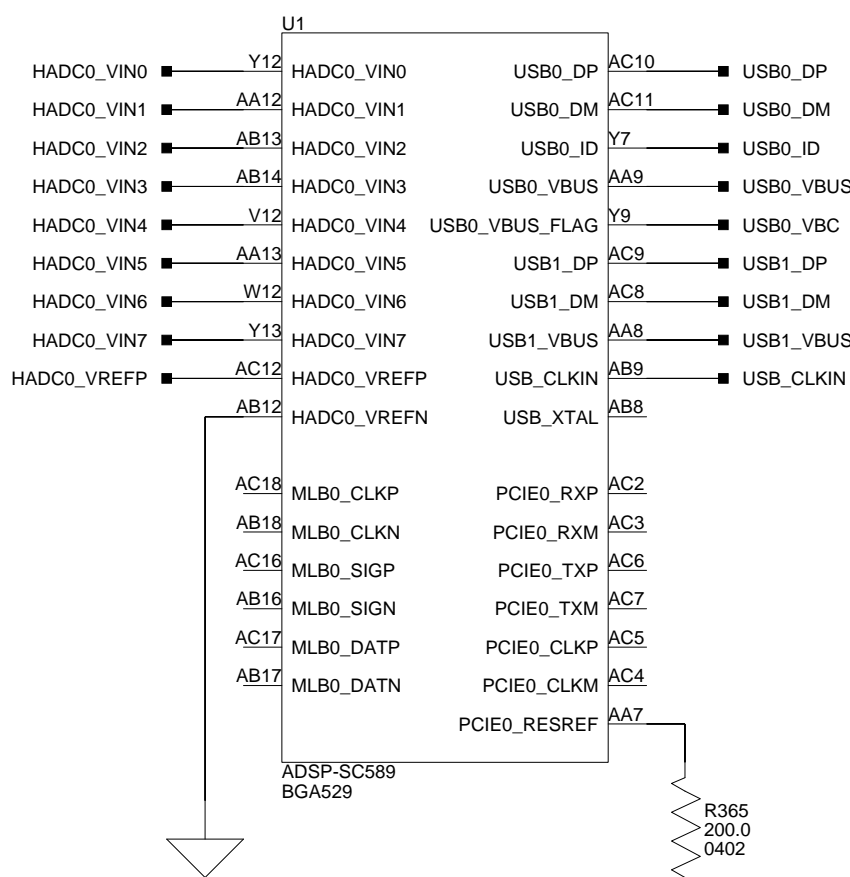
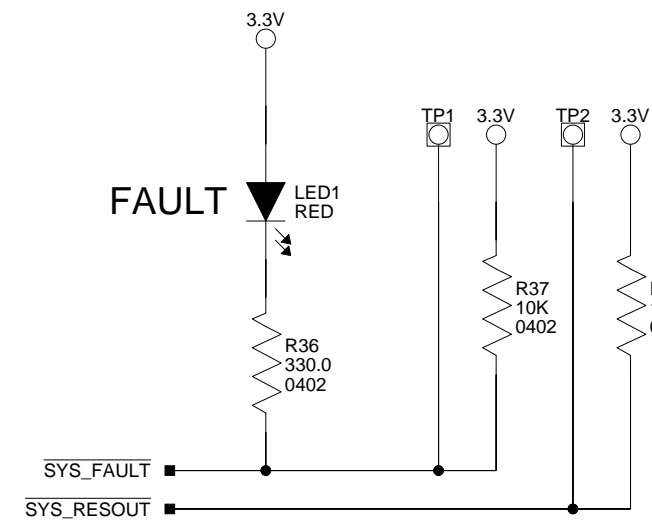
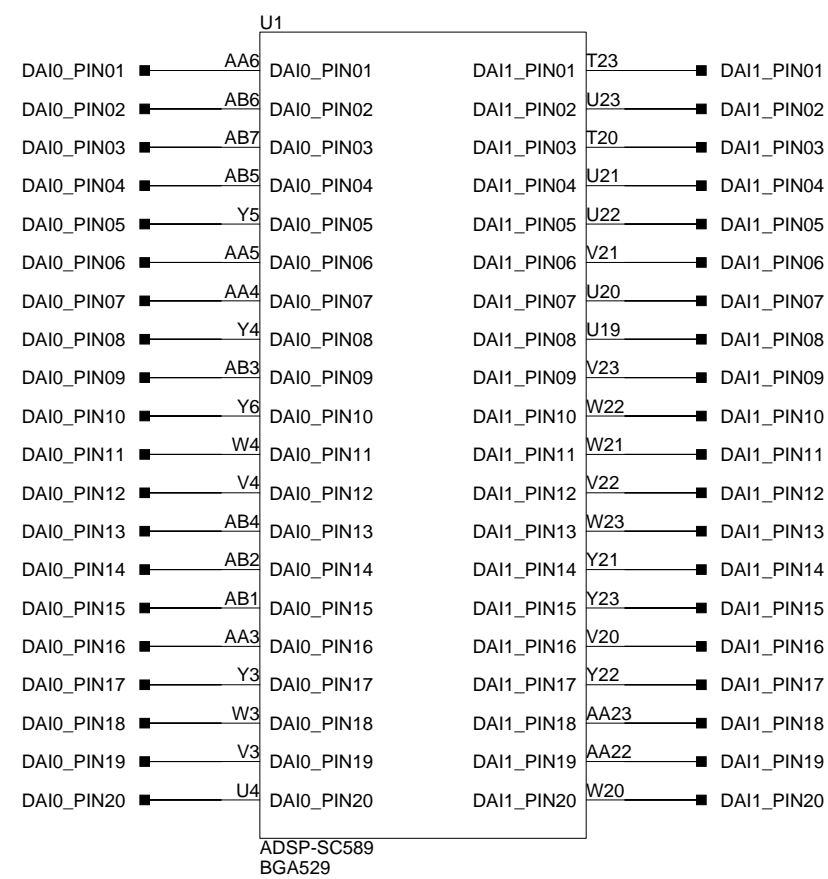
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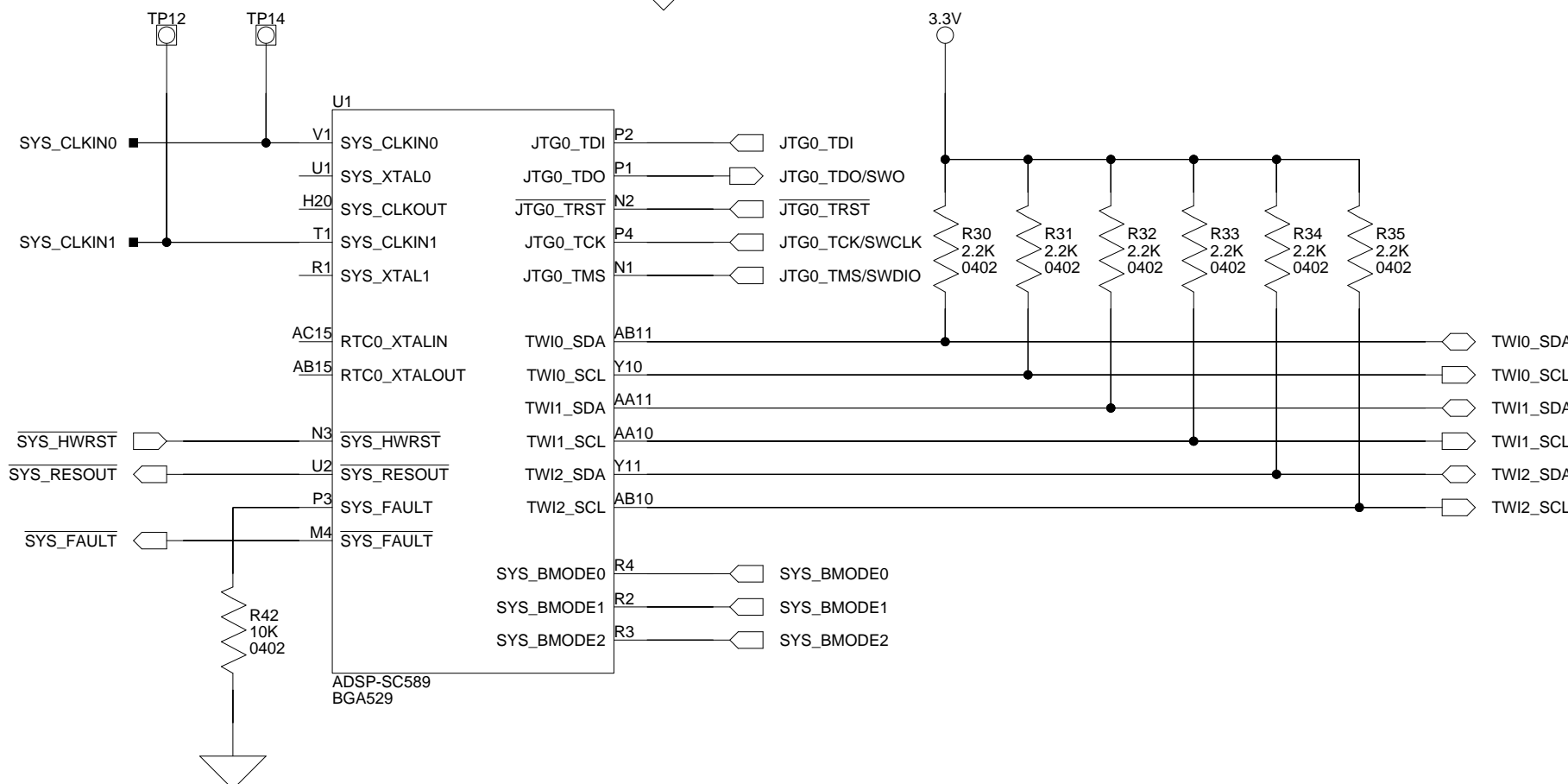
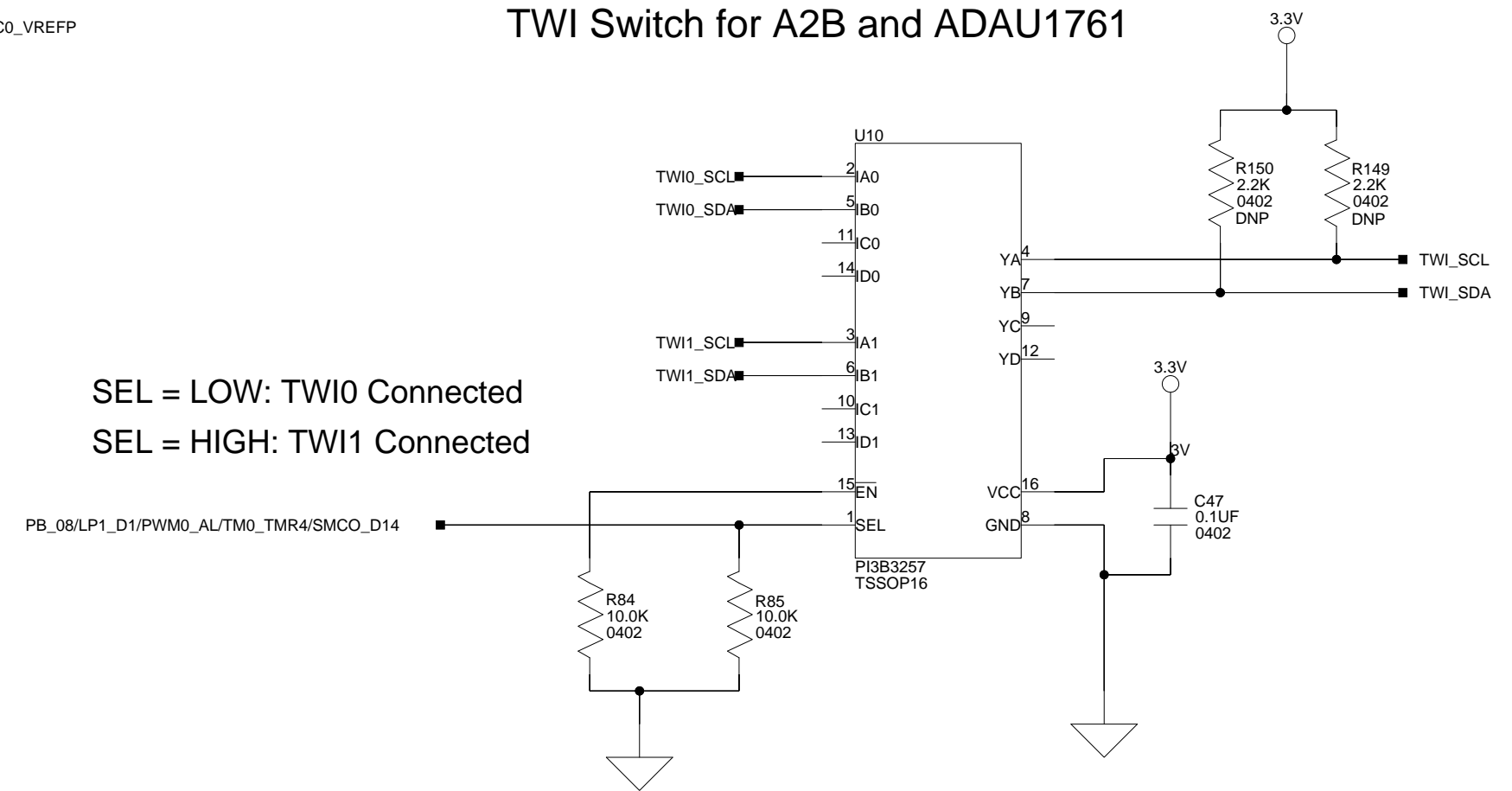
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		Title ADSP-SC589 MINI Board DDR3 Interface	
Size C	Board No. A0939-2016	Rev 1.4	
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		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC589 MINI Board DDR3 Terminators			
Size C	Board No. A0939-2016	Rev 1.4	
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TWI Switch for A2B and ADAU1761



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
Title ADSP-SC589 MINI Board Non-Mux Ports			
Size C	Board No. A0939-2016	Rev 1.4	
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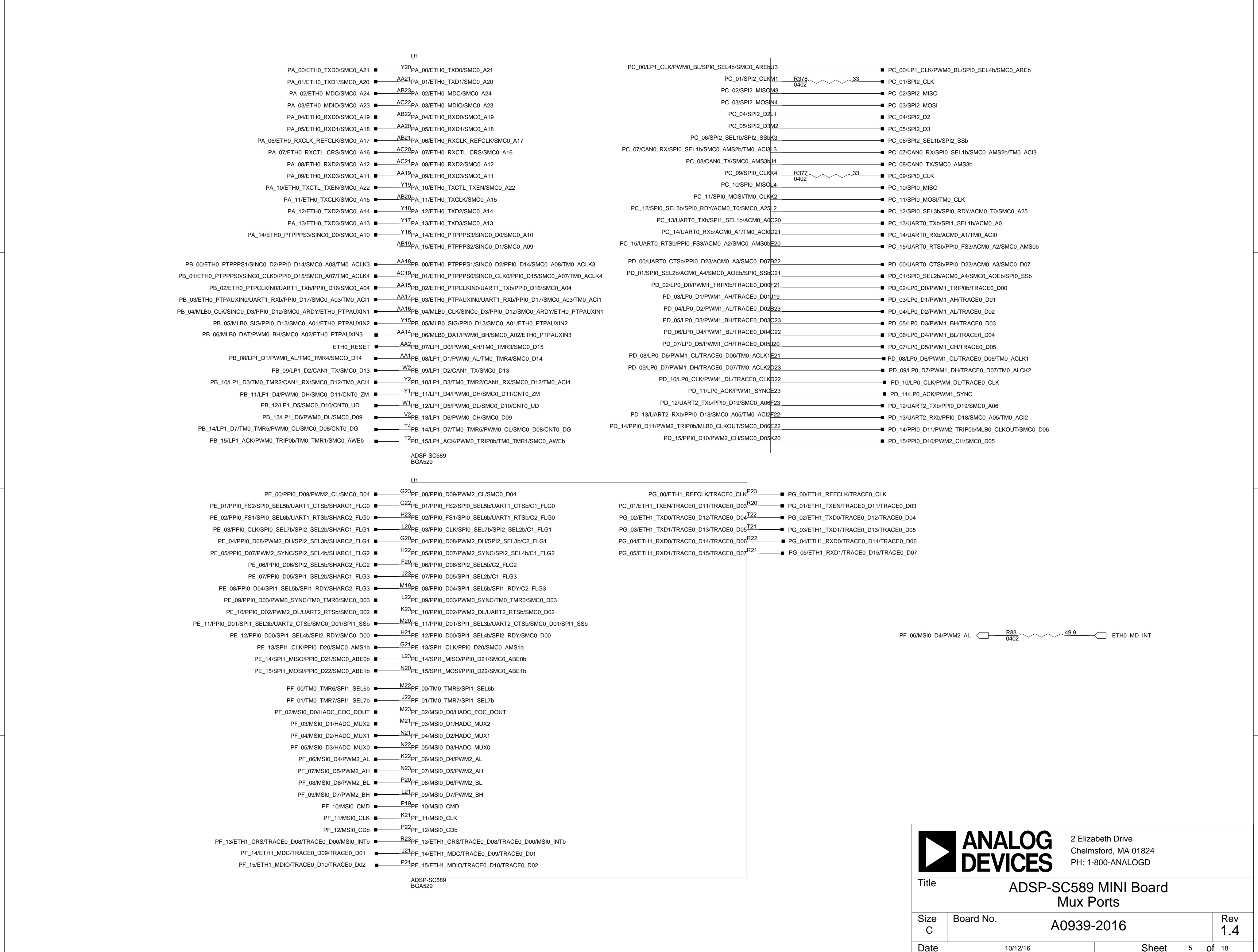
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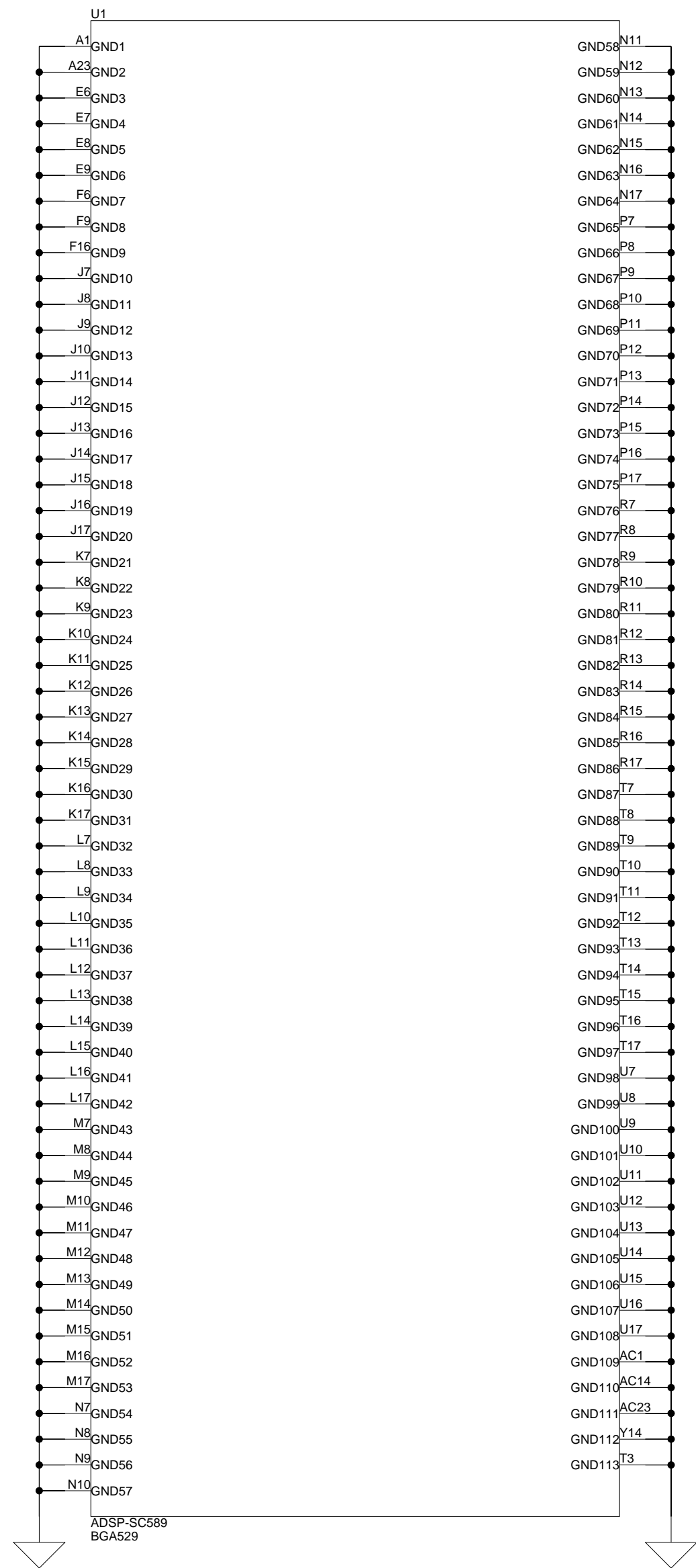
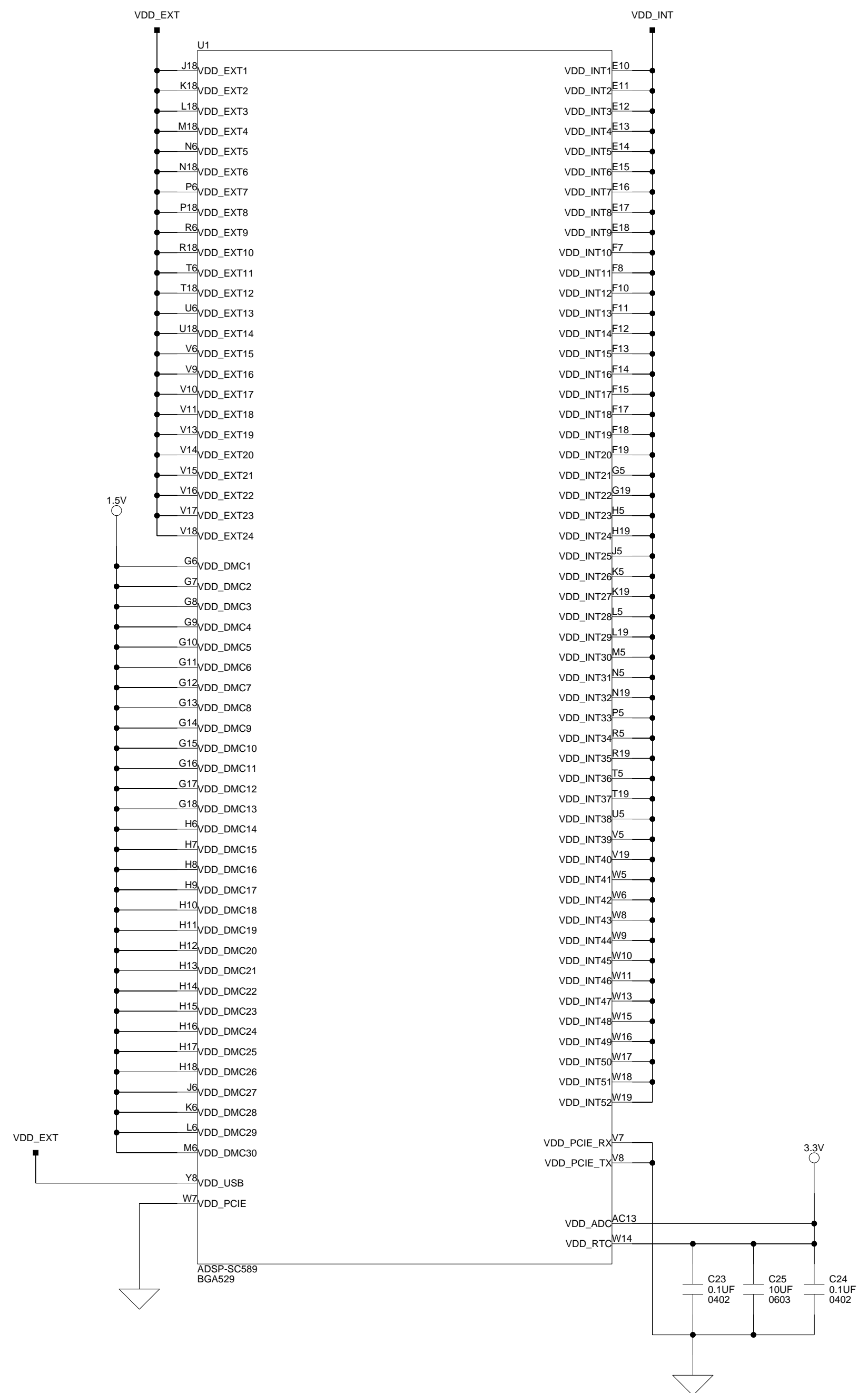
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		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board Mux Ports	
Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 5	of 18	



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board Processor Power/Ground	
Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 6 of 18		

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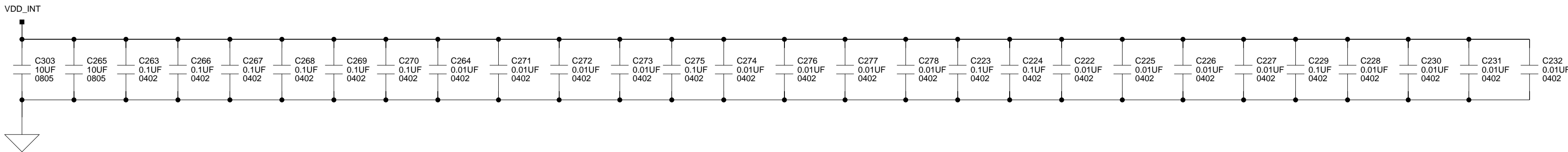
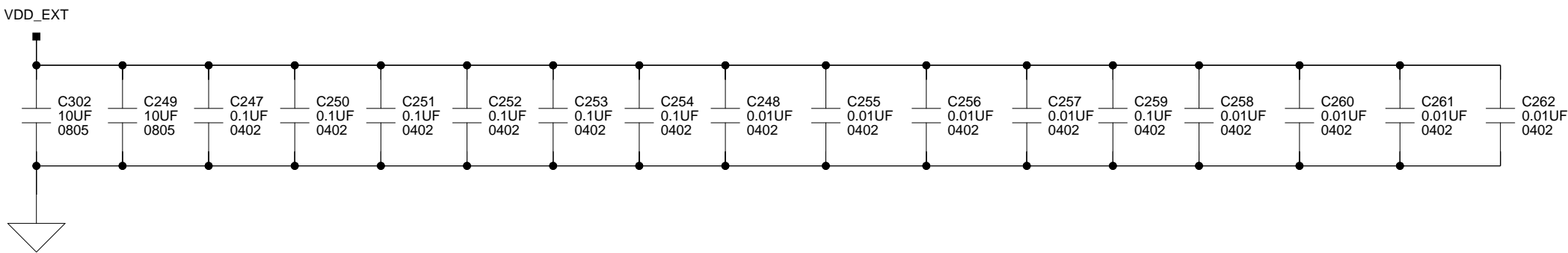
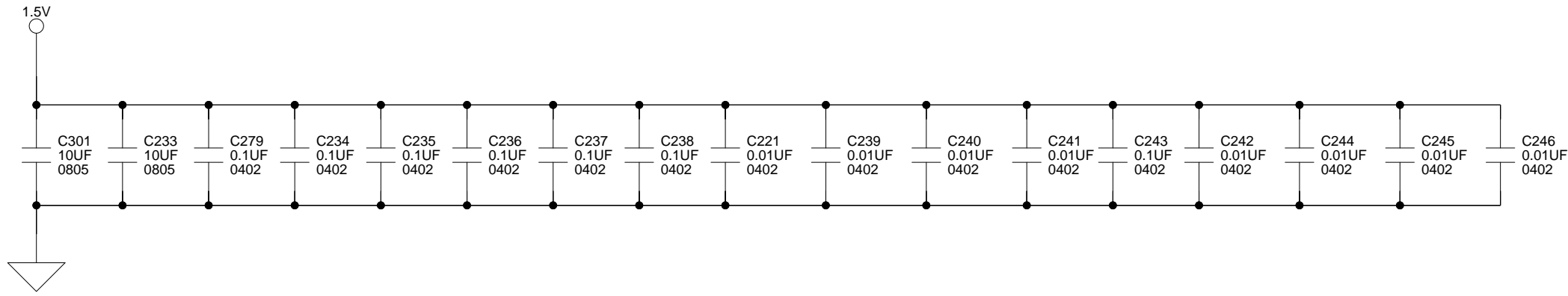
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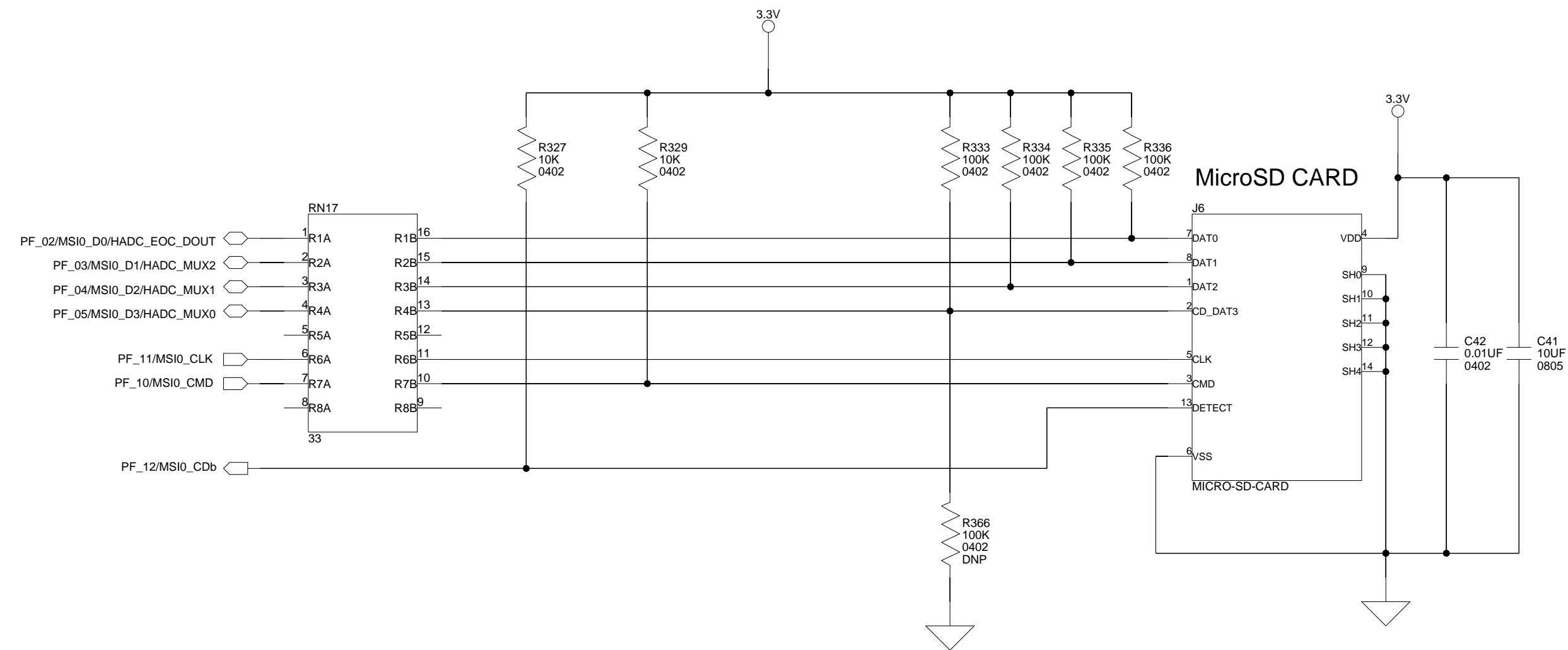
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Title		ADSP-SC589 MINI Board Proc Bypass Caps	
Size C	Board No.	A0939-2016	Rev 1.4
Date	10/12/16	Sheet	7 of 18

A

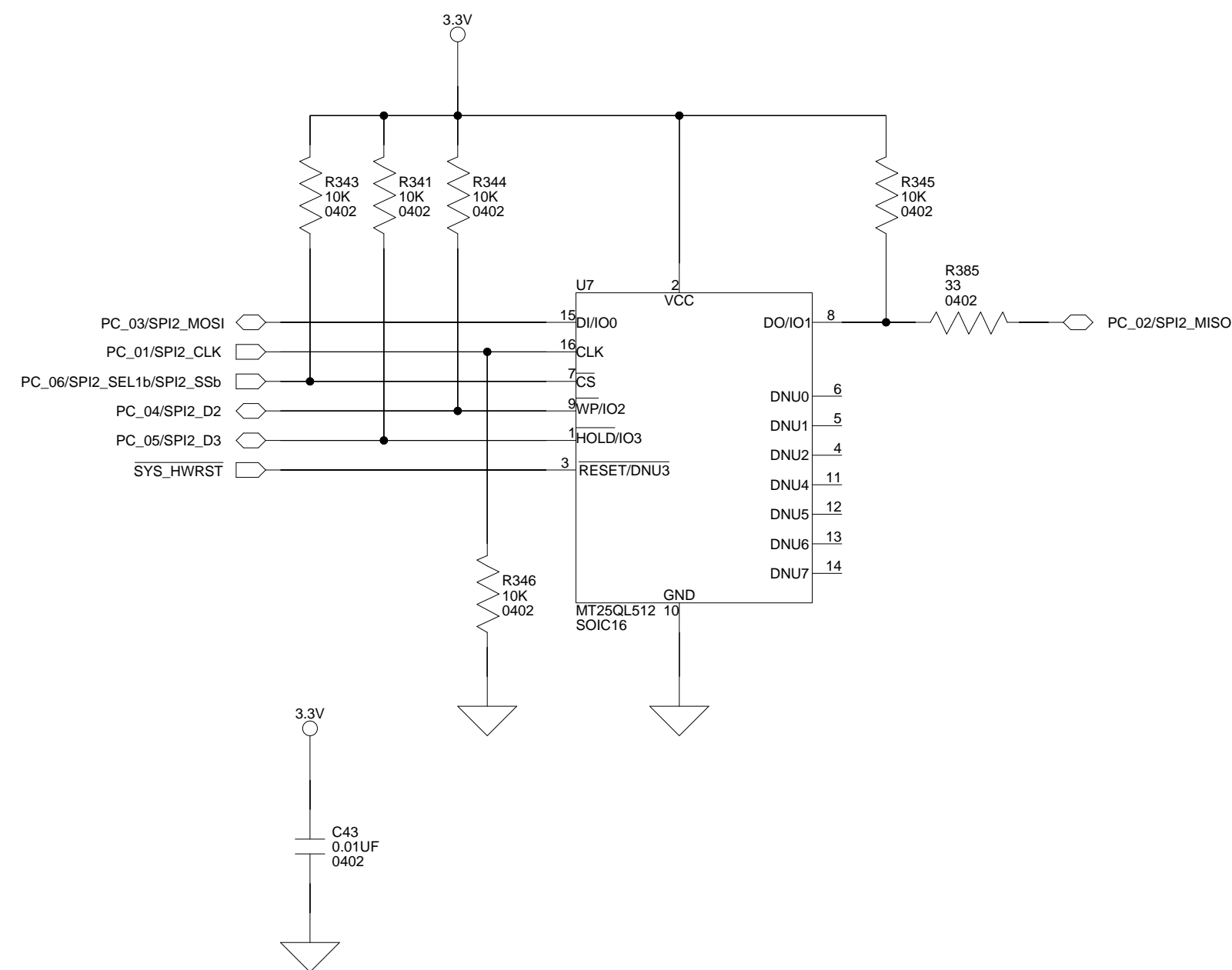
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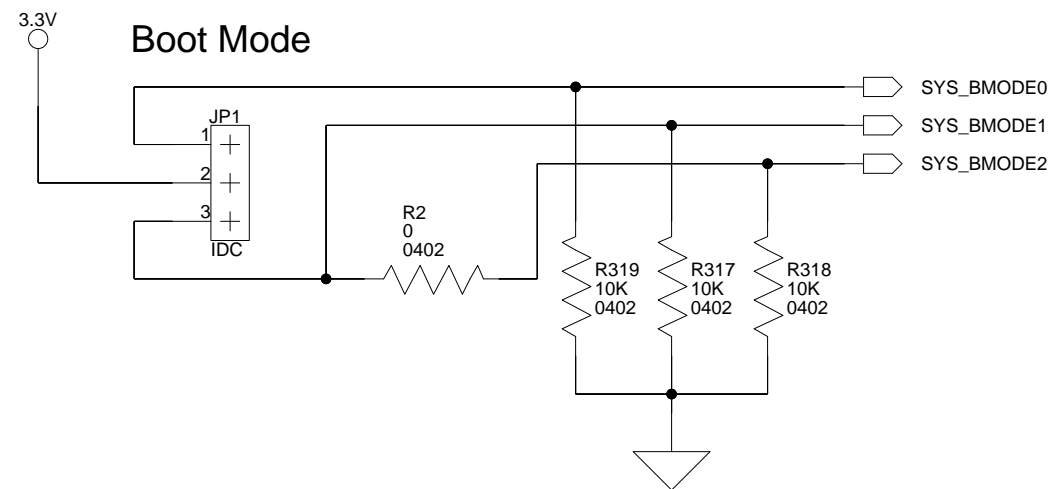


512Mb QUAD SPI FLASH

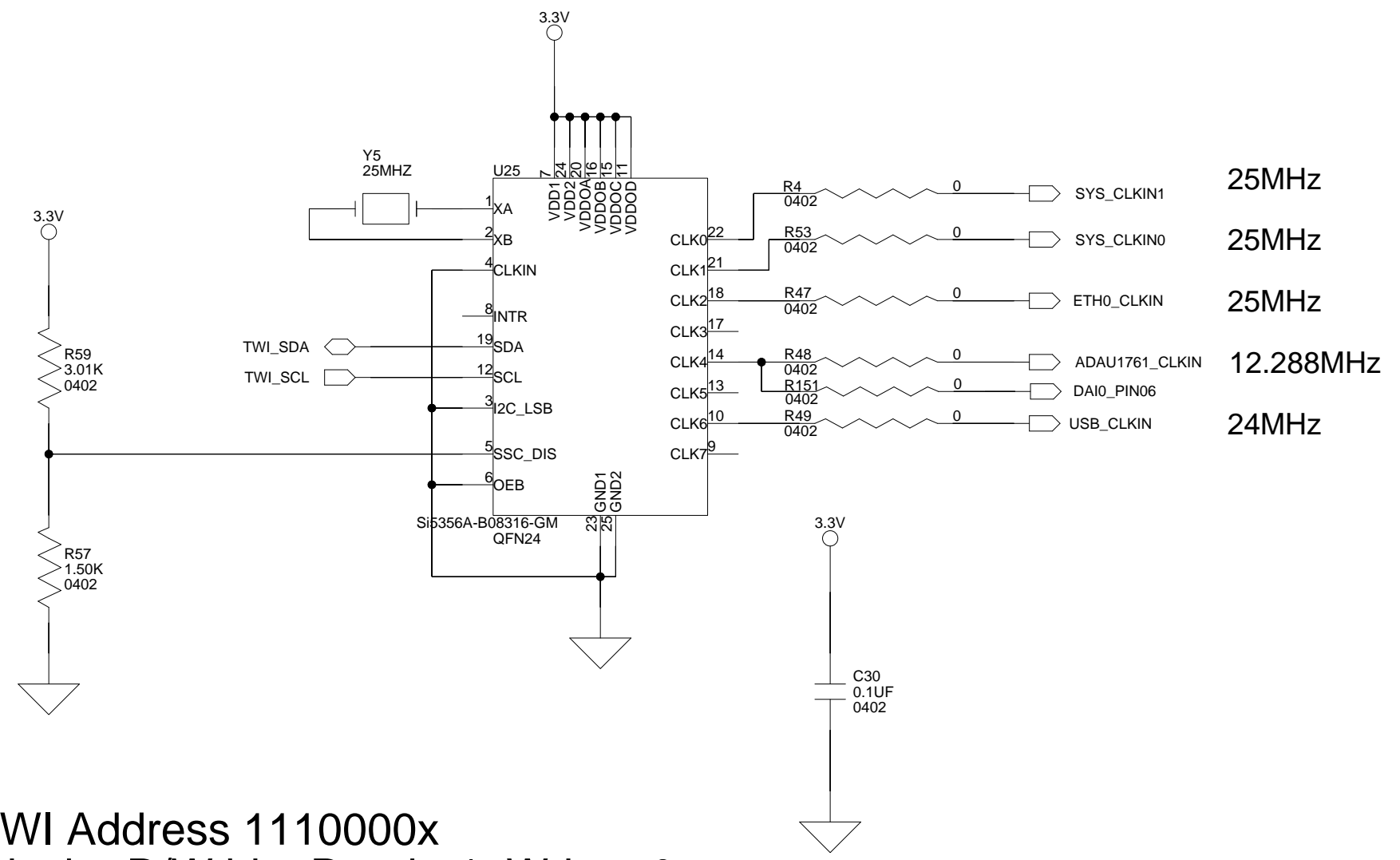


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board SPI Flash/SD	
Size C	Board No. A0939-2016	Rev 1.4	
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 S18
SHORTING
JUMPER
DEFAULT=INSTALLED 1-2

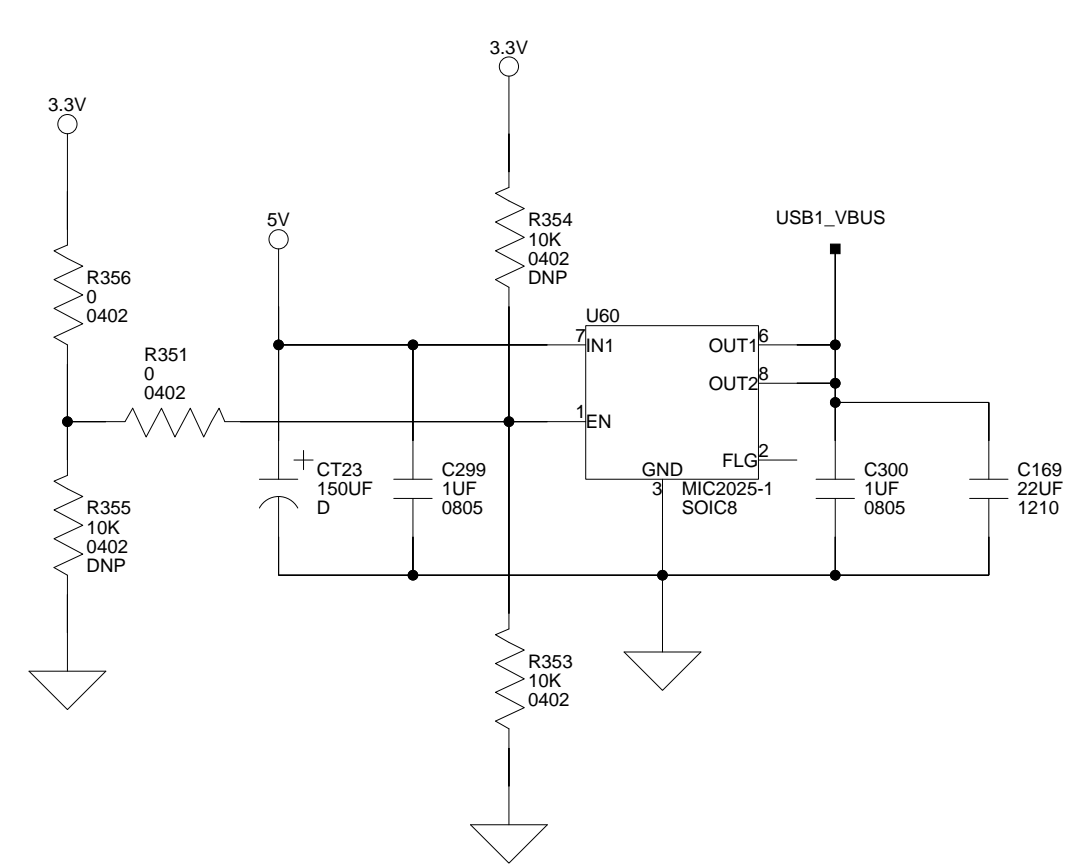
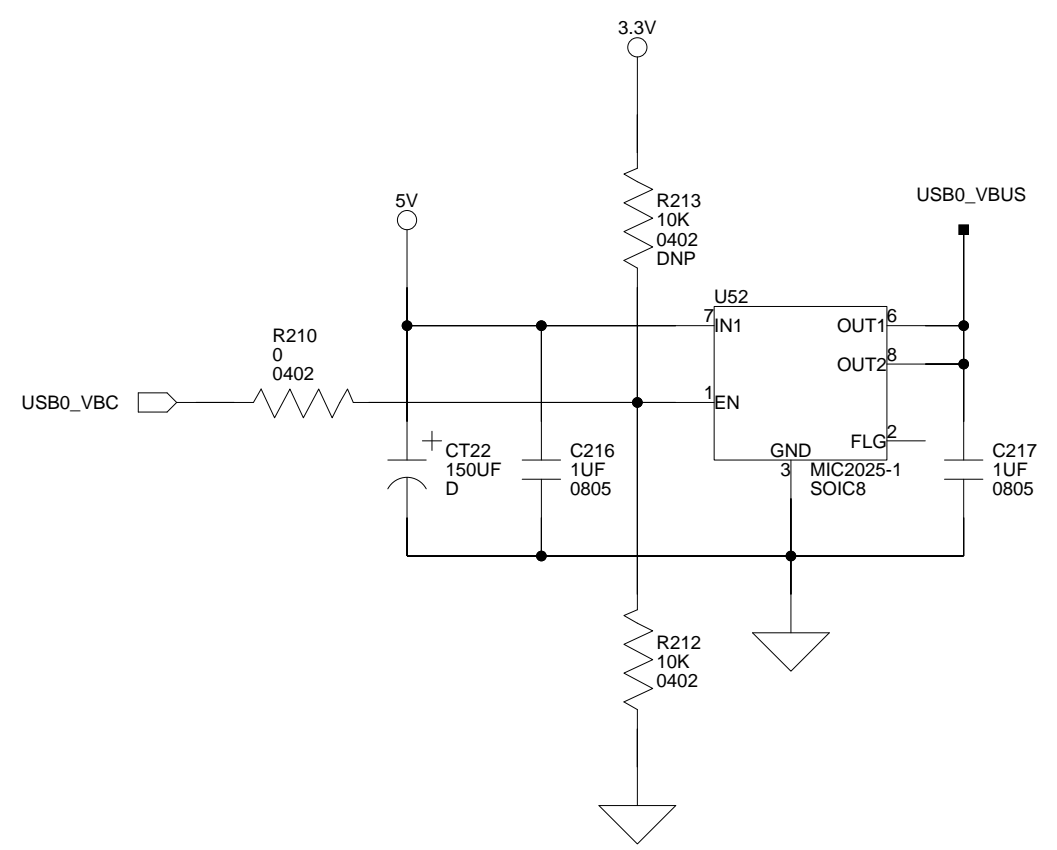
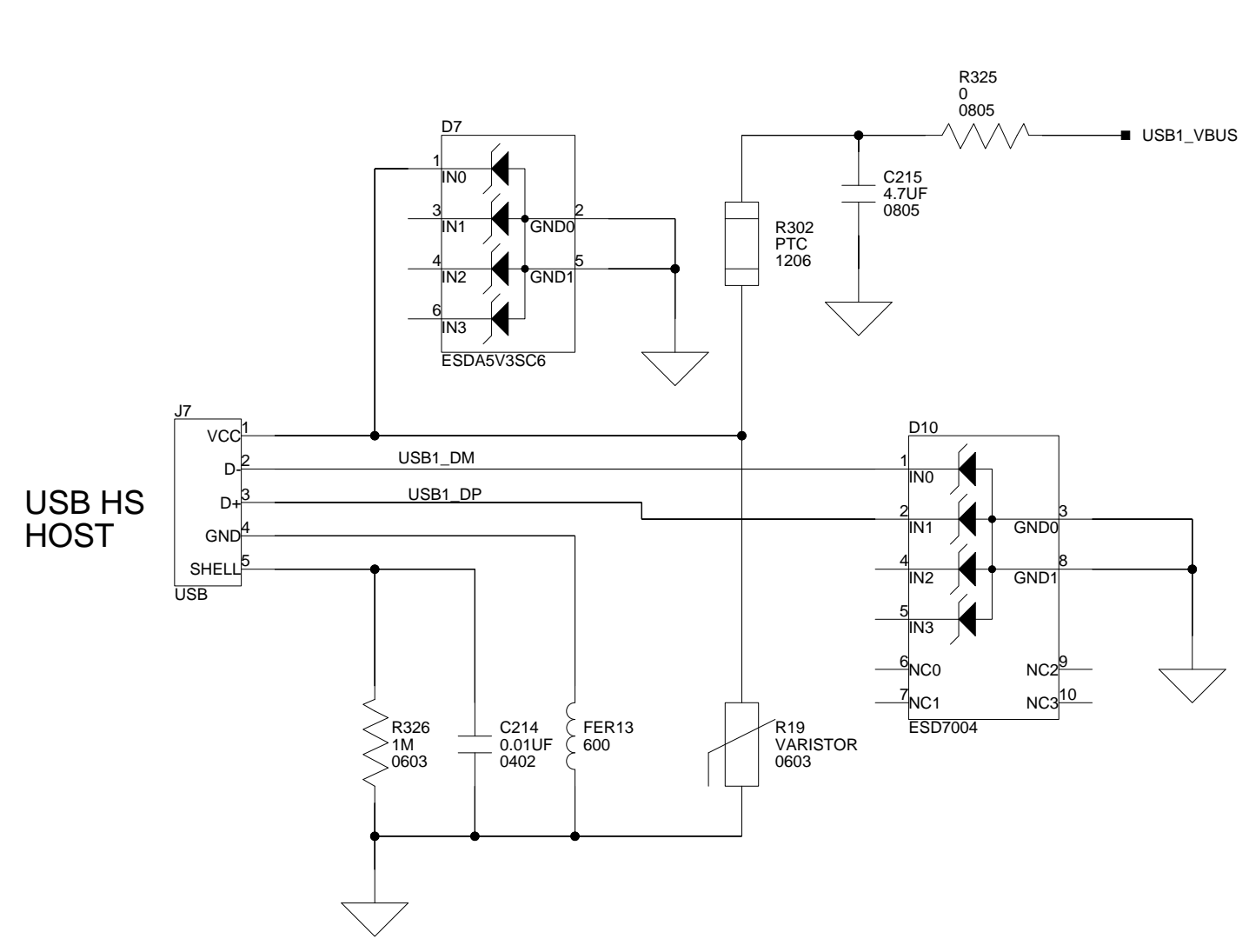
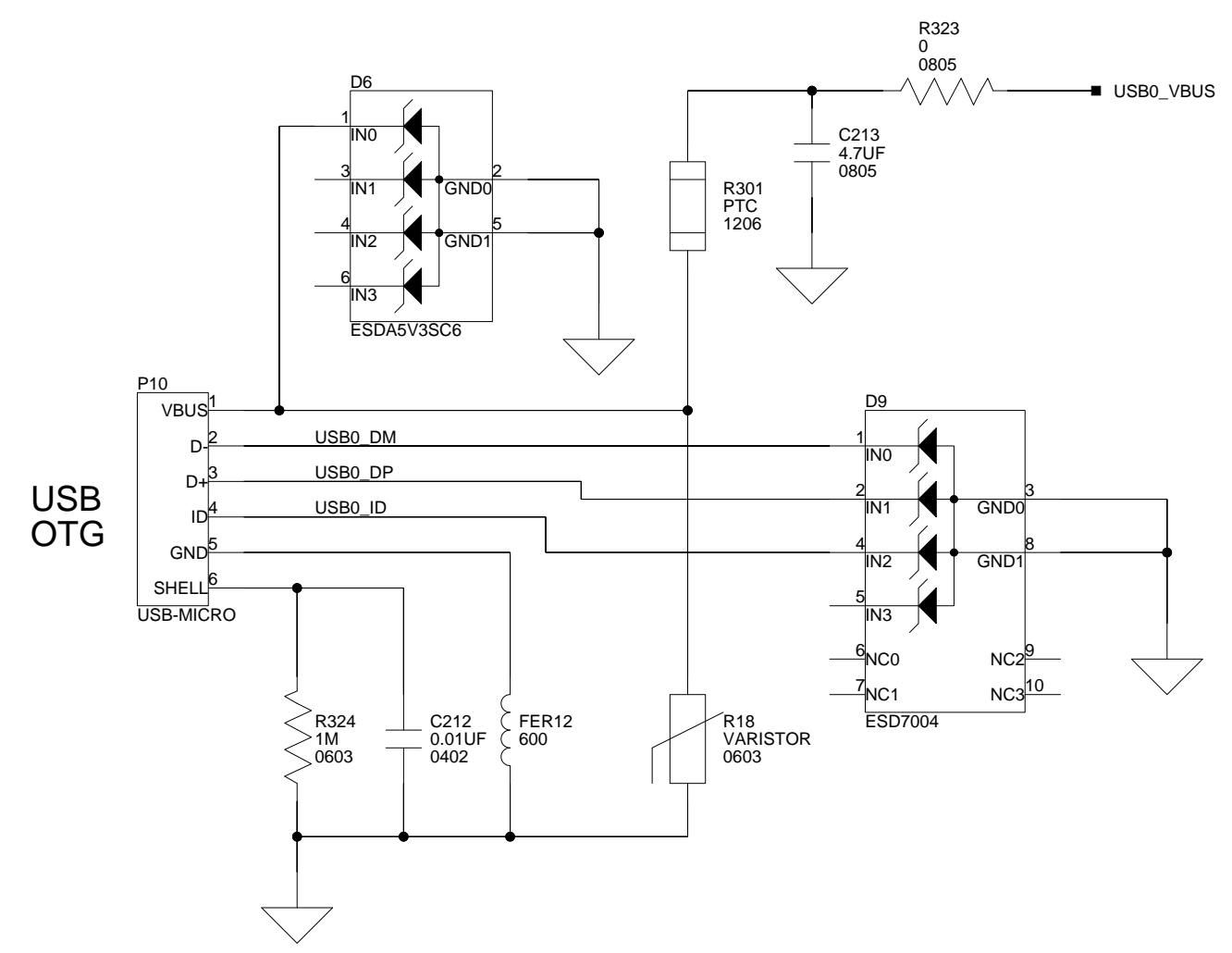



Jumper 1-2: SPI Boot
Jumper 2-3: UART Boot
Jumper Removed: No Boot

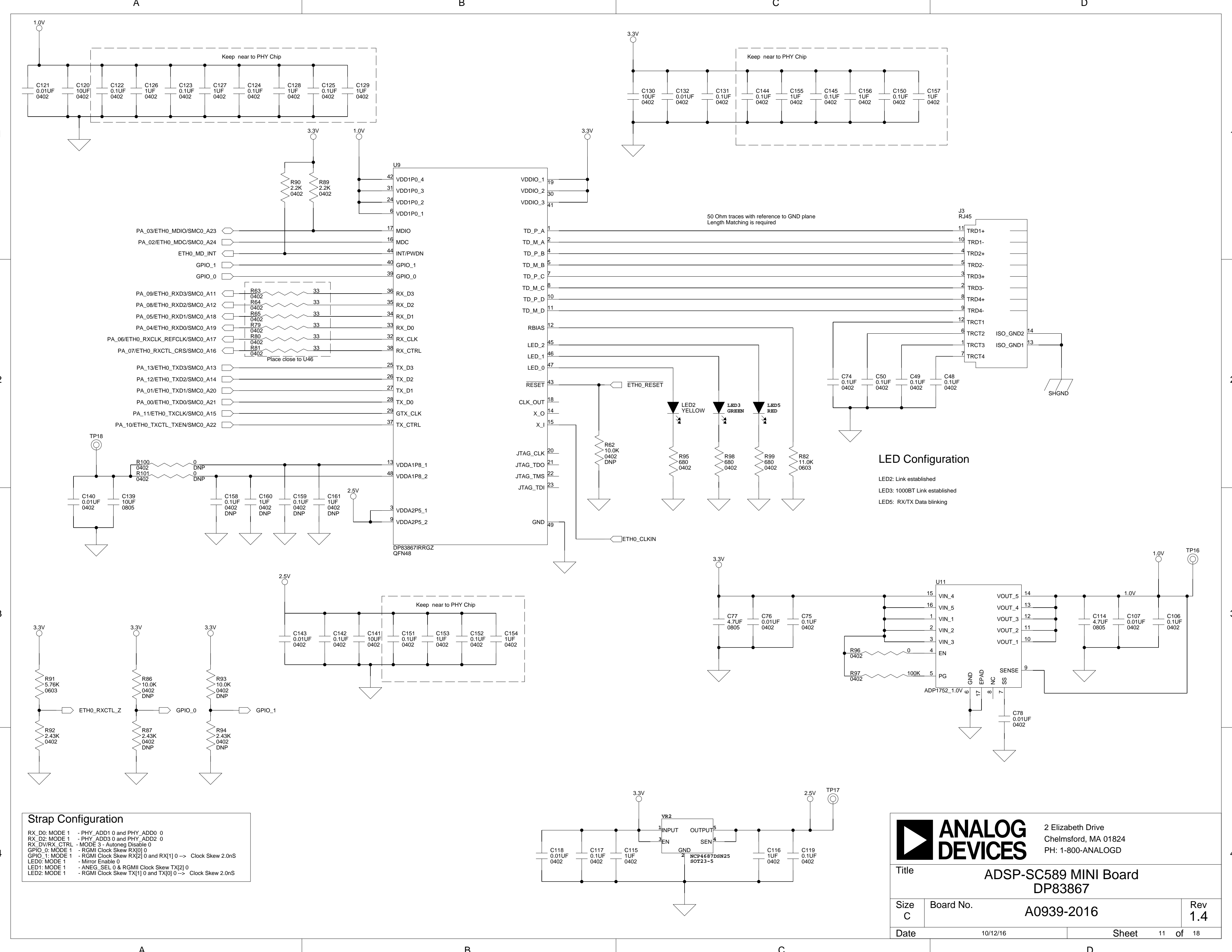


TWI Address 1110000x
x is the R/W bit. Read - 1, Write - 0

		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board Clocks/Boot Mode	
Size C	Board No. A0939-2016	Rev 1.4	
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		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board USB	
Size C	Board No. A0939-2016	Rev 1.4	
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Strap Configuration

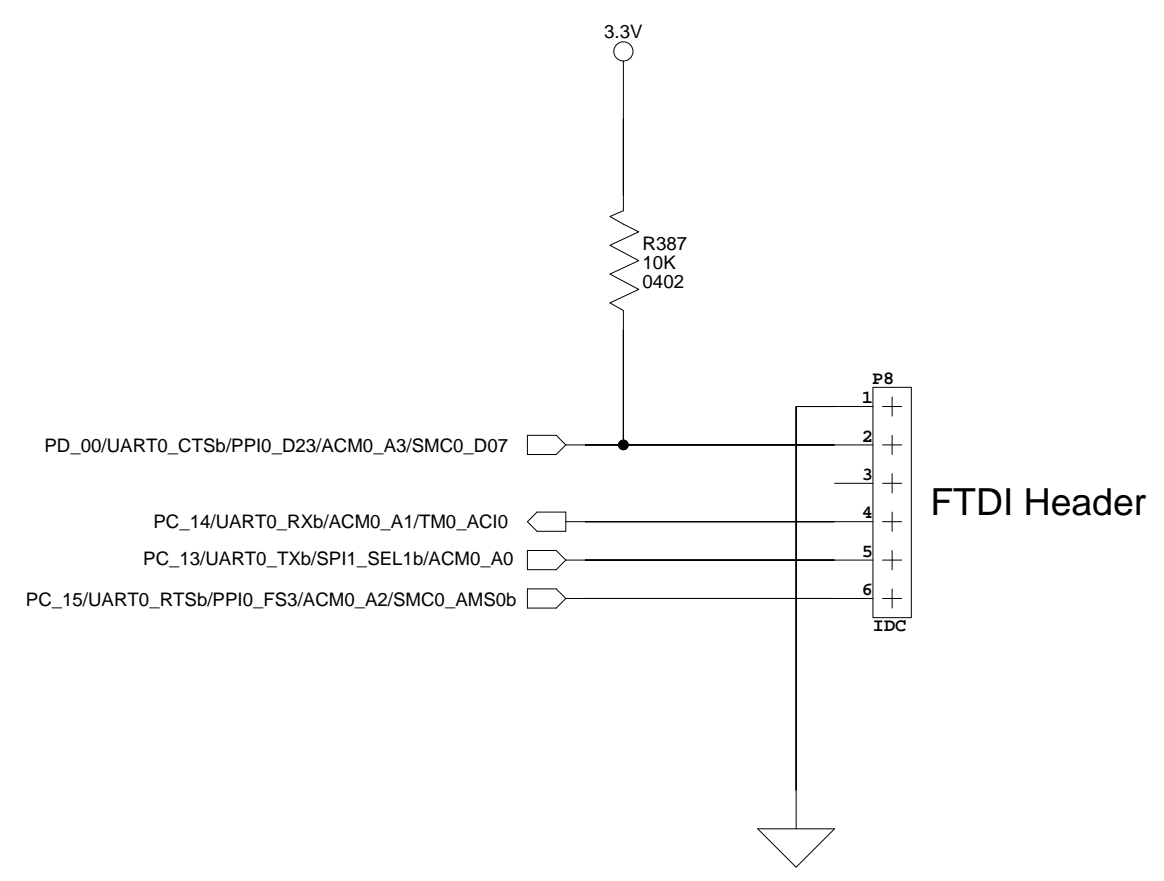
RX_D0: MODE 1	- PHY_ADD1 0 and PHY_ADD0 0
RX_D2: MODE 1	- PHY_ADD3 0 and PHY_ADD2 0
RX_DV/RX_CTRL	- MODE 3 - Autoneg Disable 0
GPIO_0: MODE 1	- RGMII Clock Skew RX[0] 0
GPIO_1: MODE 1	- RGMII Clock Skew RX[2] 0 and RX[1] 0 --> Clock Skew 2.0nS
LED0: MODE 1	- Mirror Enable 0
LED1: MODE 1	- ANEG_SEL 0 & RGMII Clock Skew TX[2] 0
LED2: MODE 1	- RGMII Clock Skew TX[1] 0 and TX[0] 0 --> Clock Skew 2.0nS

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

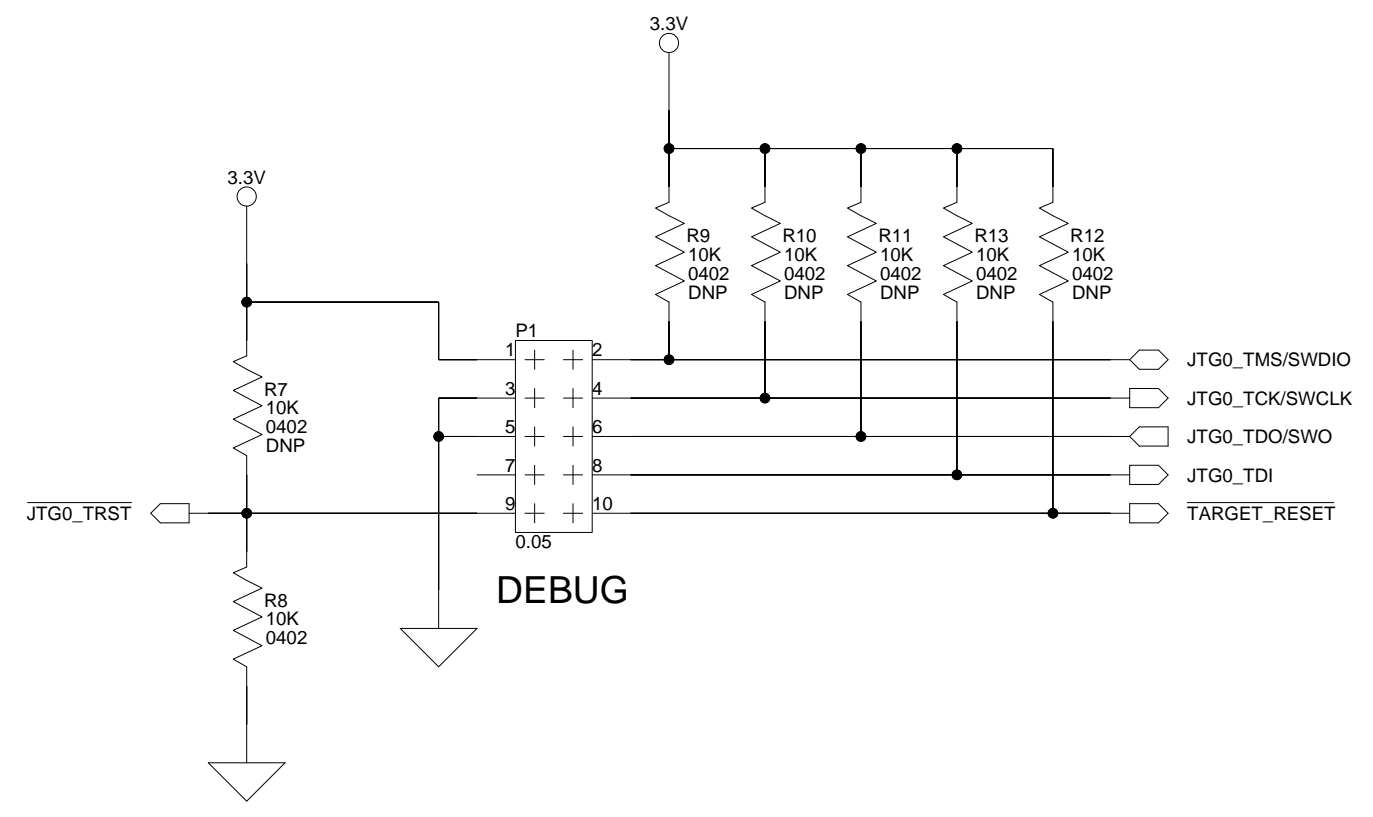
Title: **ADSP-SC589 MINI Board DP83867**


Size C	Board No. A0939-2016	Rev 1.4
Date	10/12/16	Sheet 11 of 18

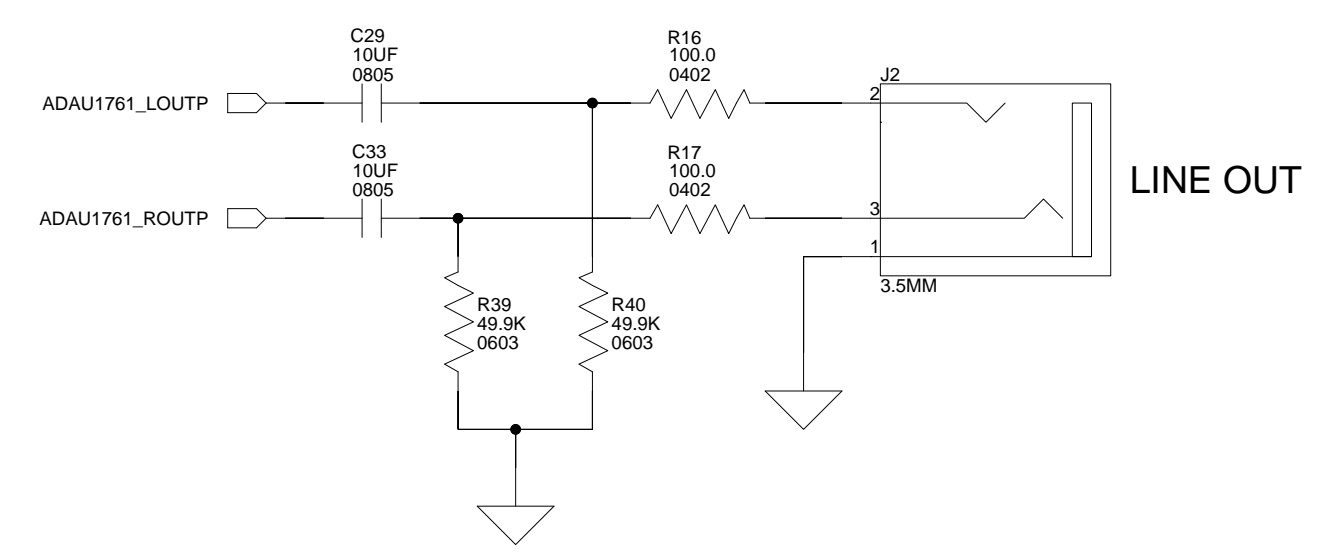
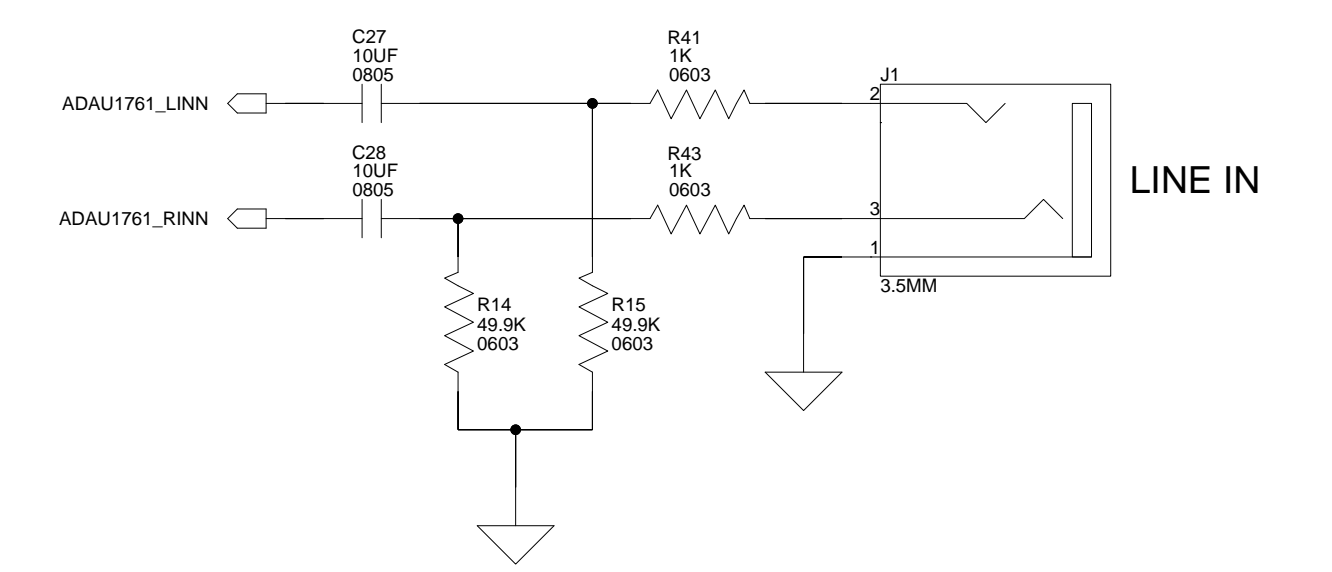
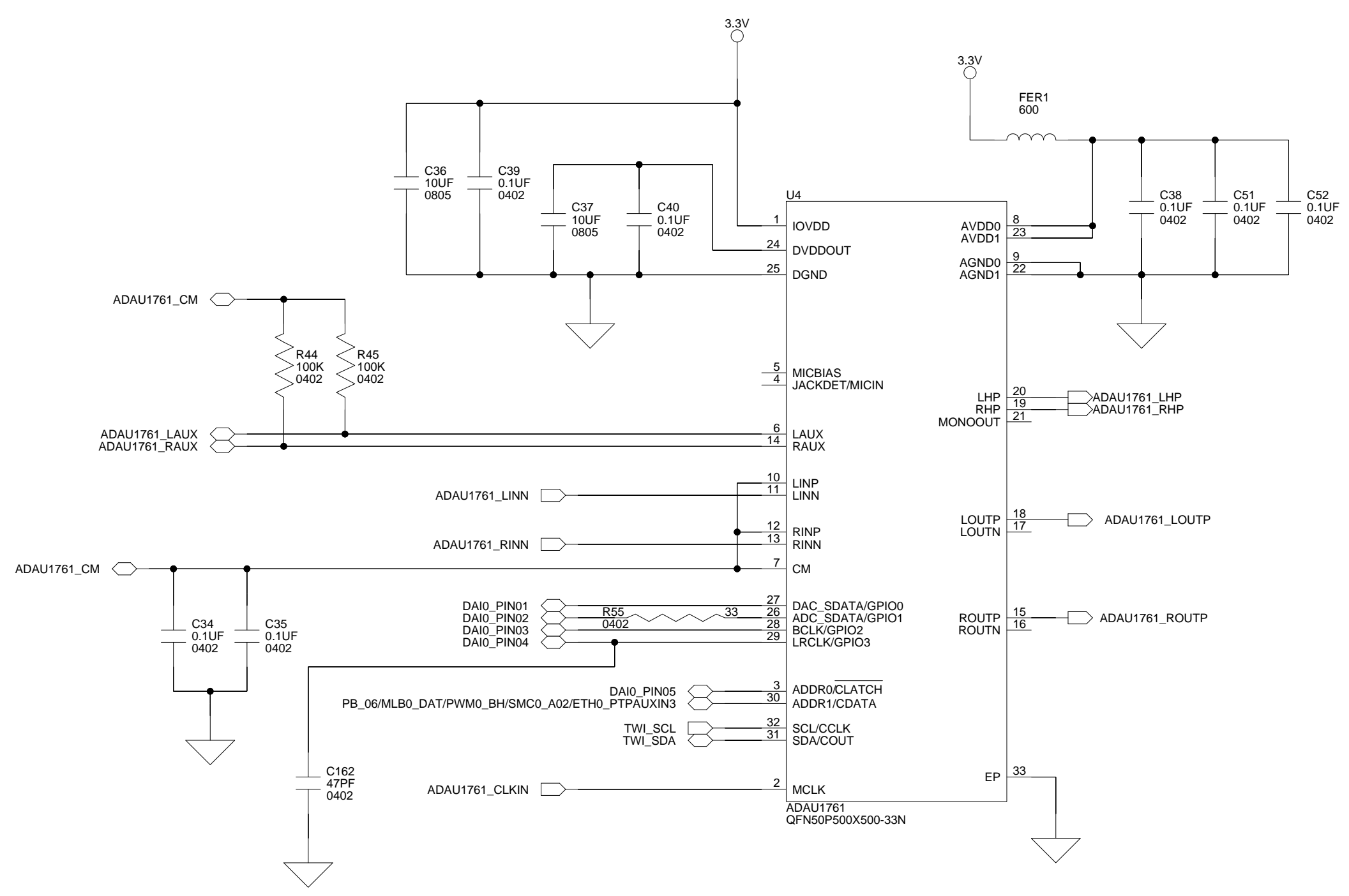
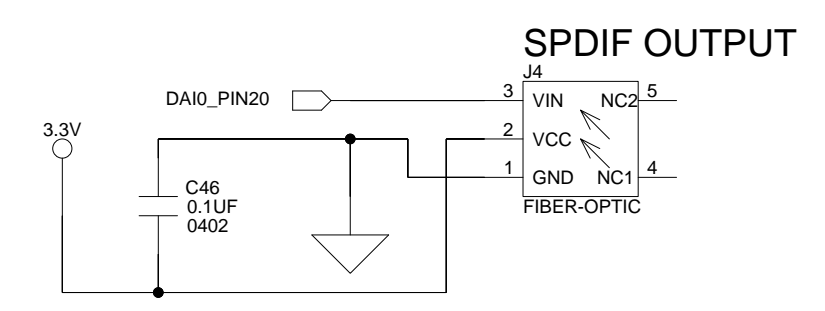
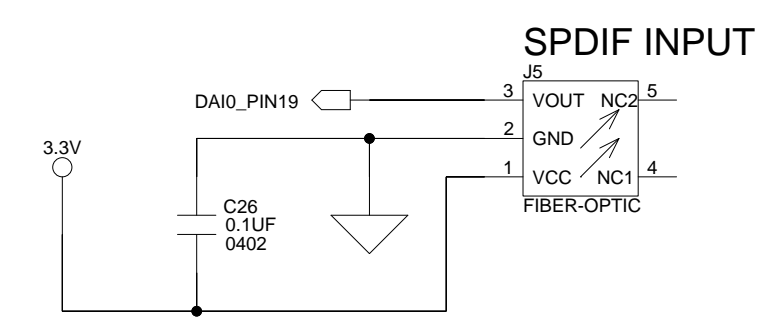
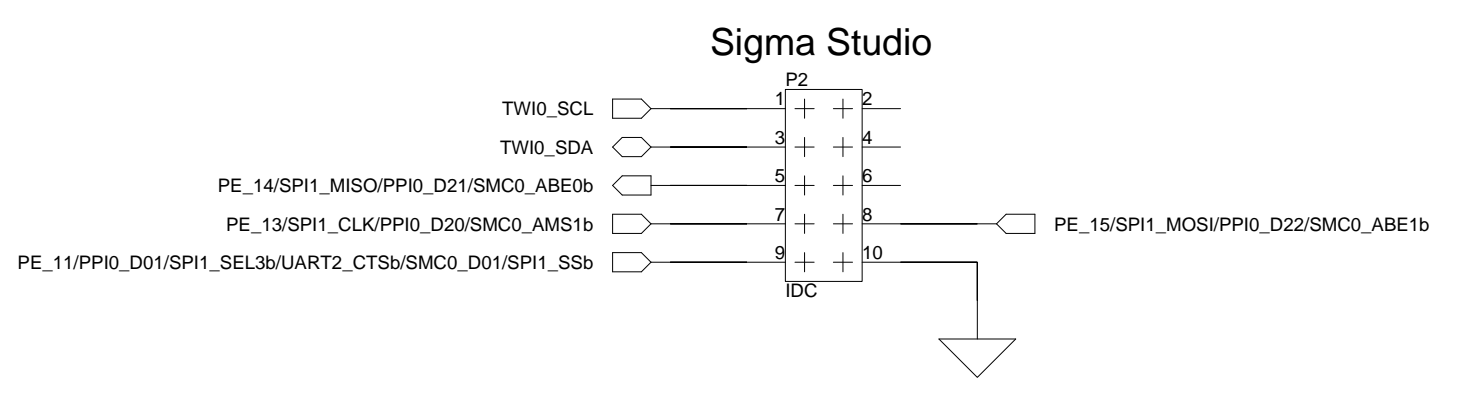
USB to UART



DEBUG

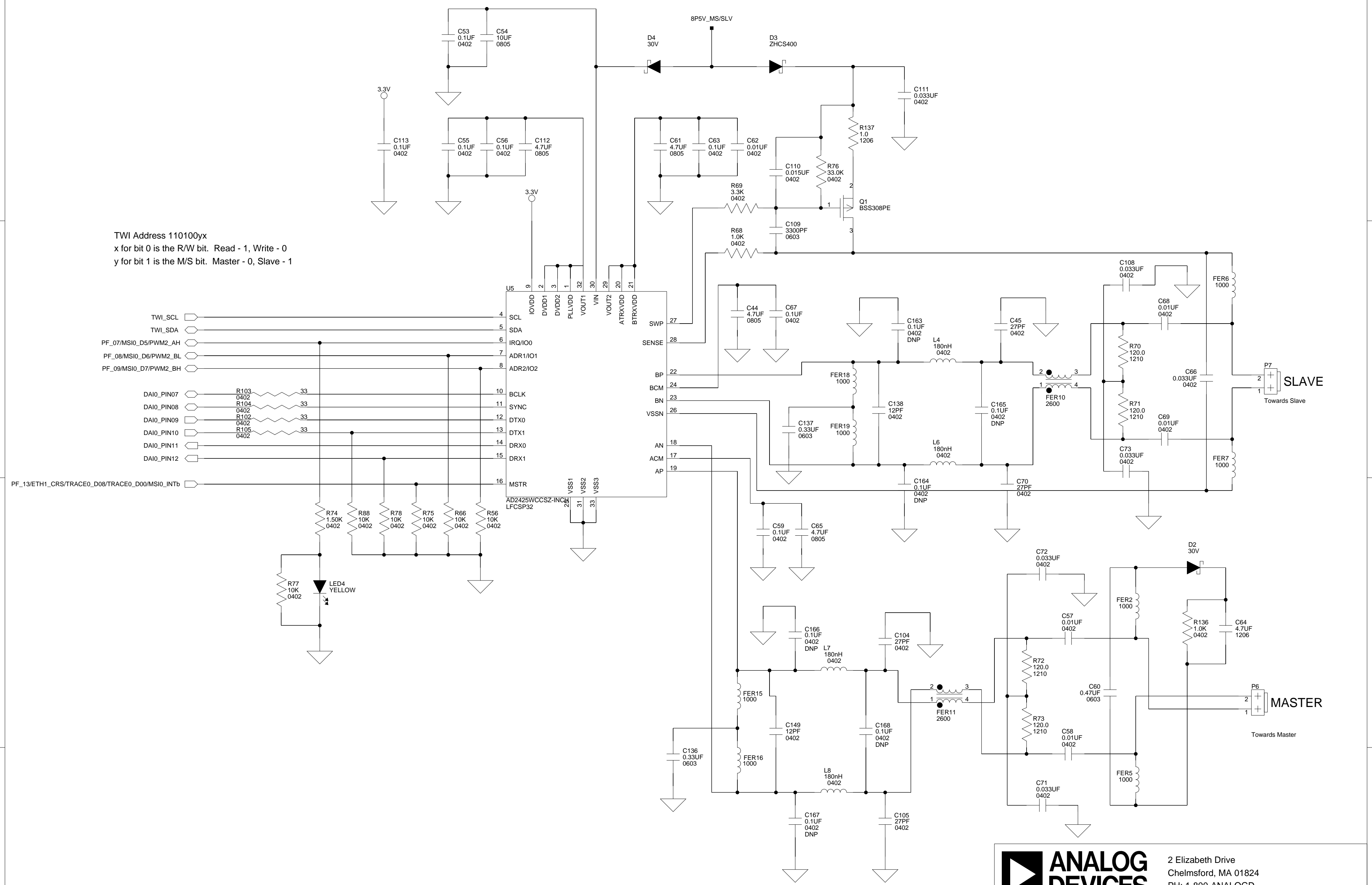



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board UART/JTAG	
Size C	Board No. A0939-2016	Rev 1.4	
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		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board ADAU1761	
Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 13 of 18		

TWI Address 110100yx
 x for bit 0 is the R/W bit. Read - 1, Write - 0
 y for bit 1 is the M/S bit. Master - 0, Slave - 1



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board A2B Master/Slave Node	
Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 14 of 18		

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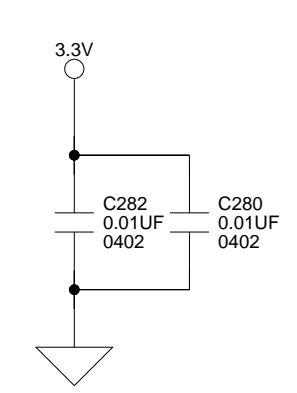
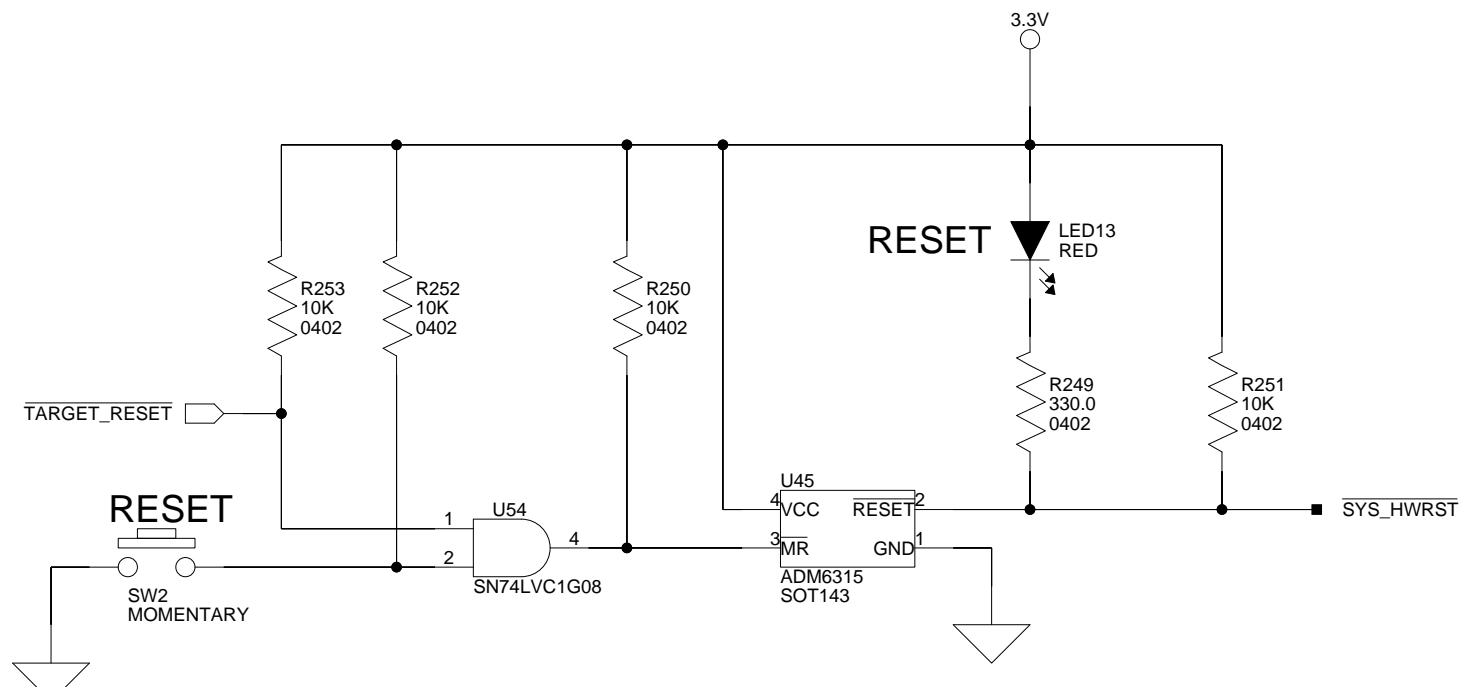
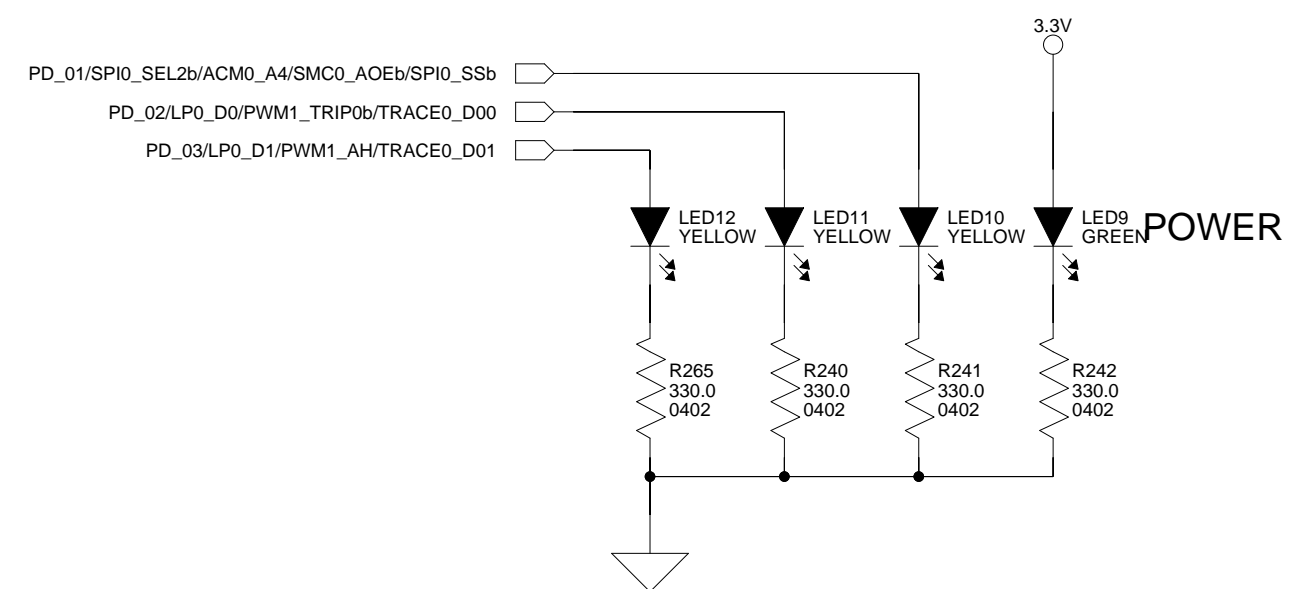
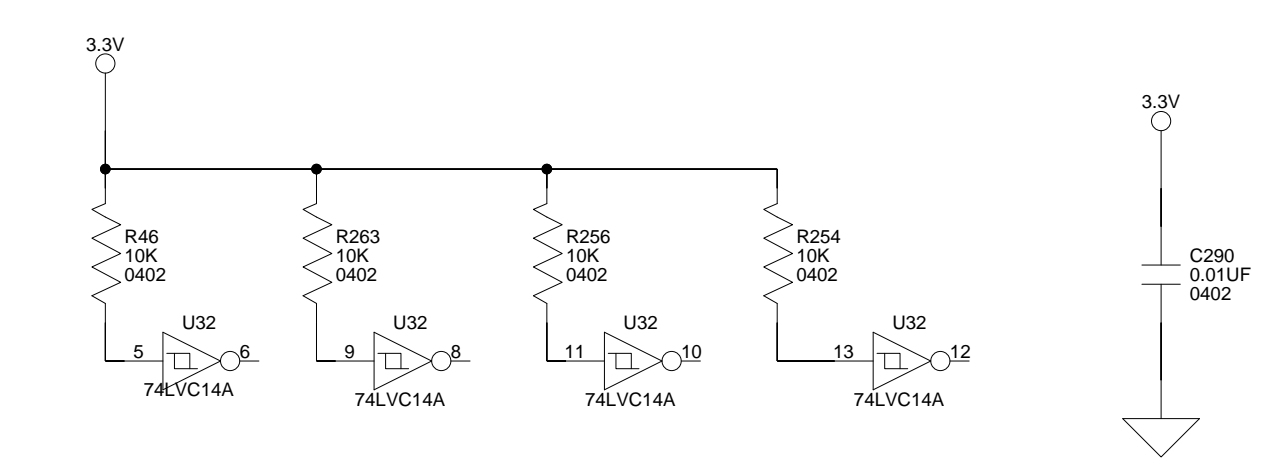
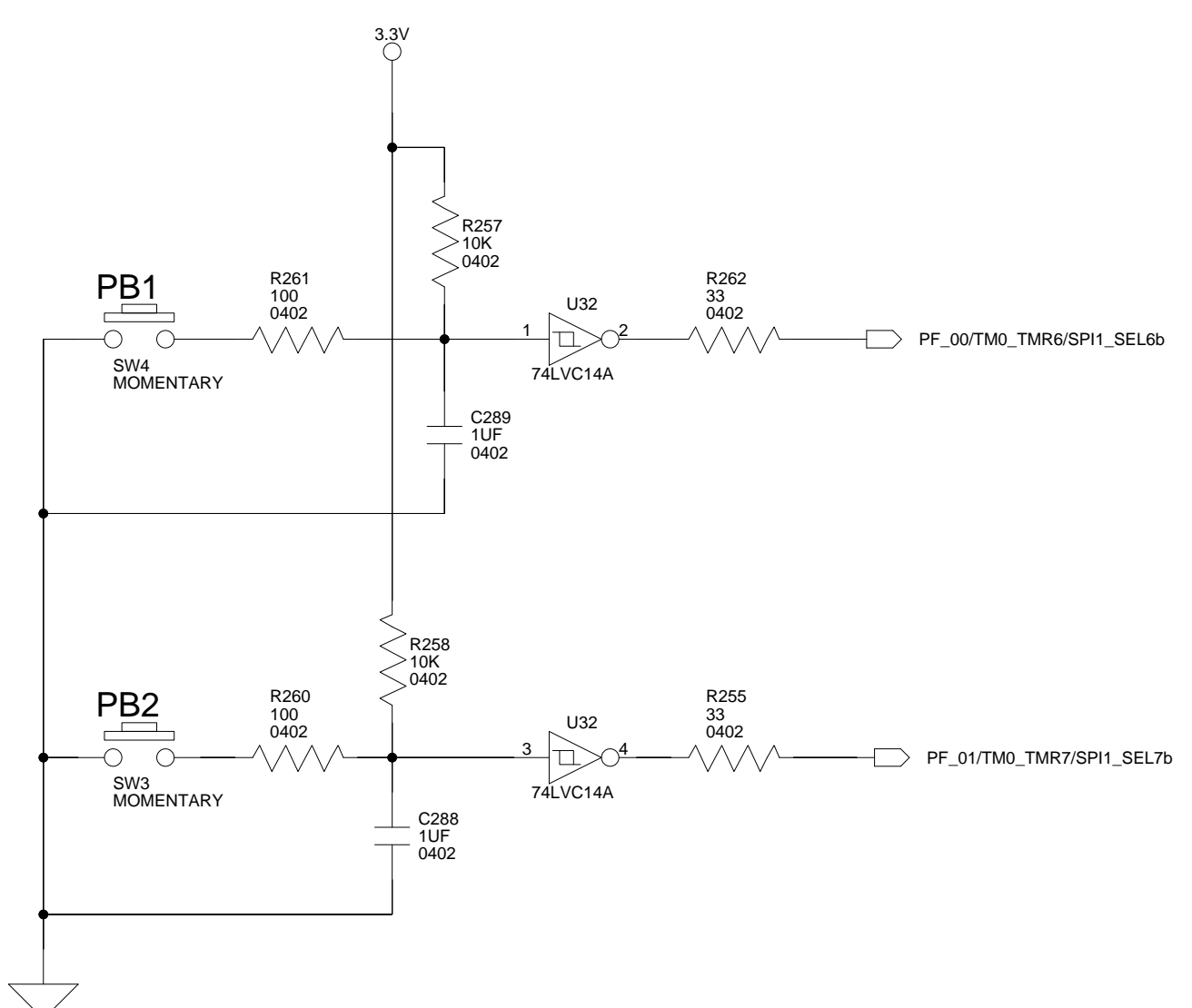
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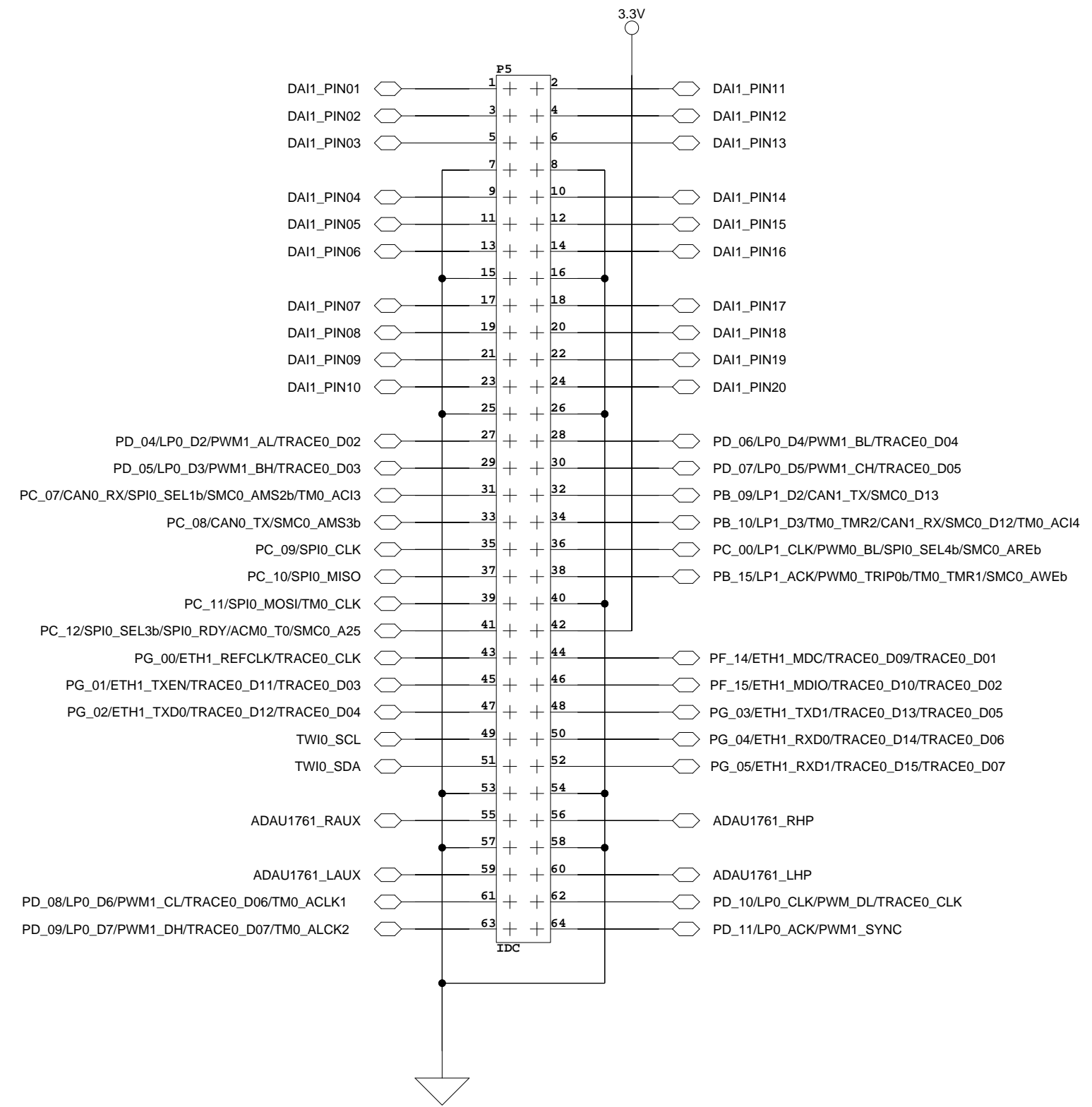
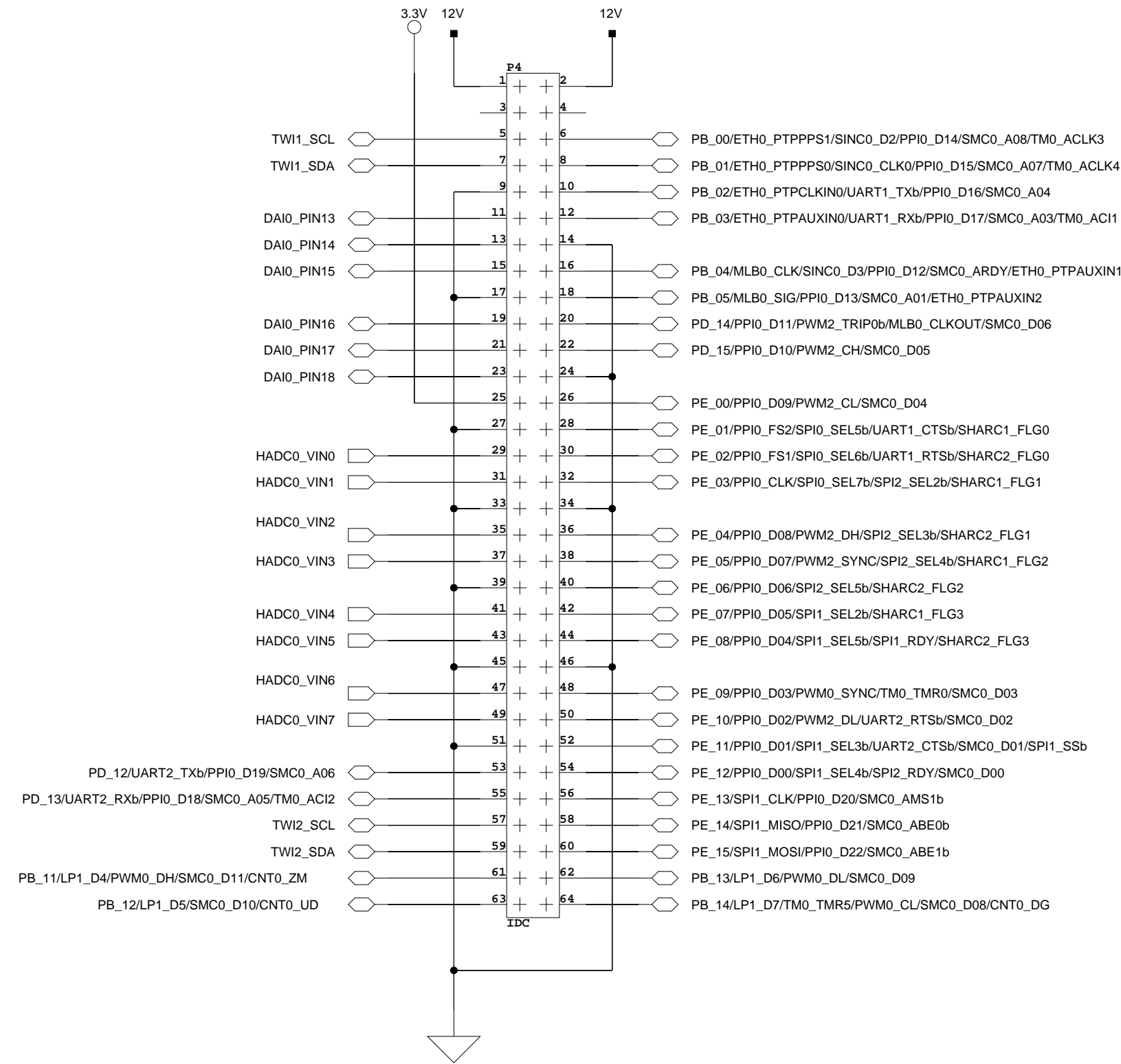
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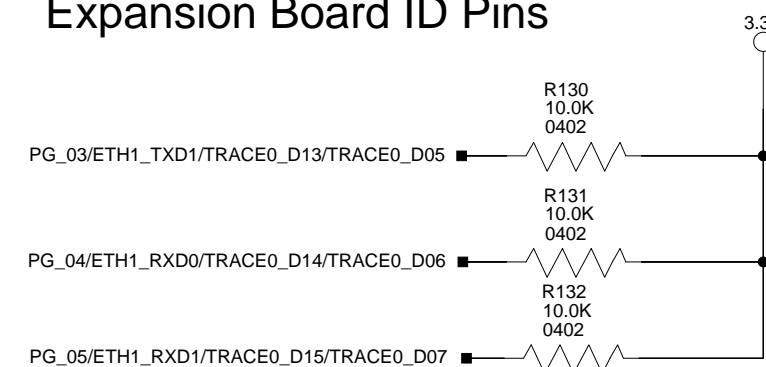


		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board LEDs/Switches/Reset	
Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 15 of 18		

Expansion Ports



Expansion Board ID Pins



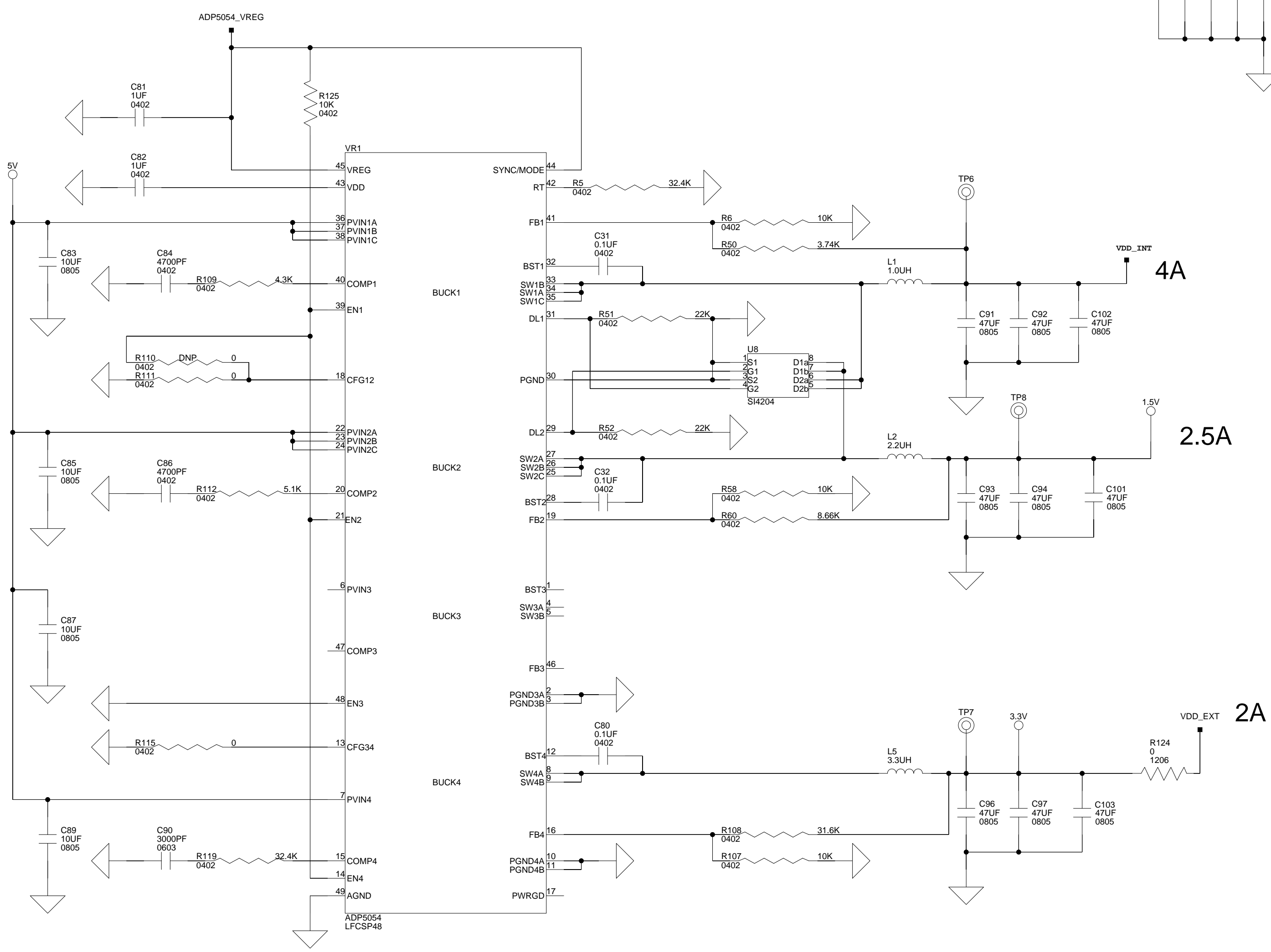
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Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 16	of 18	

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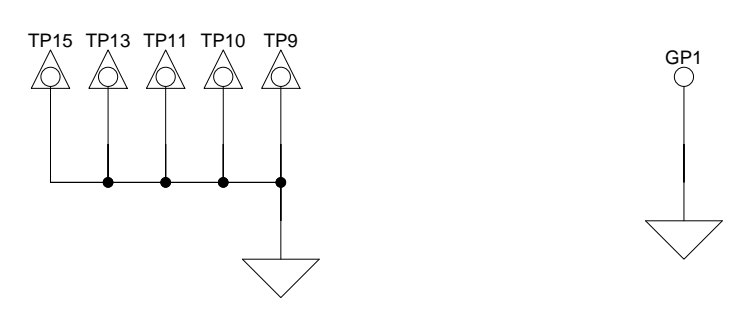
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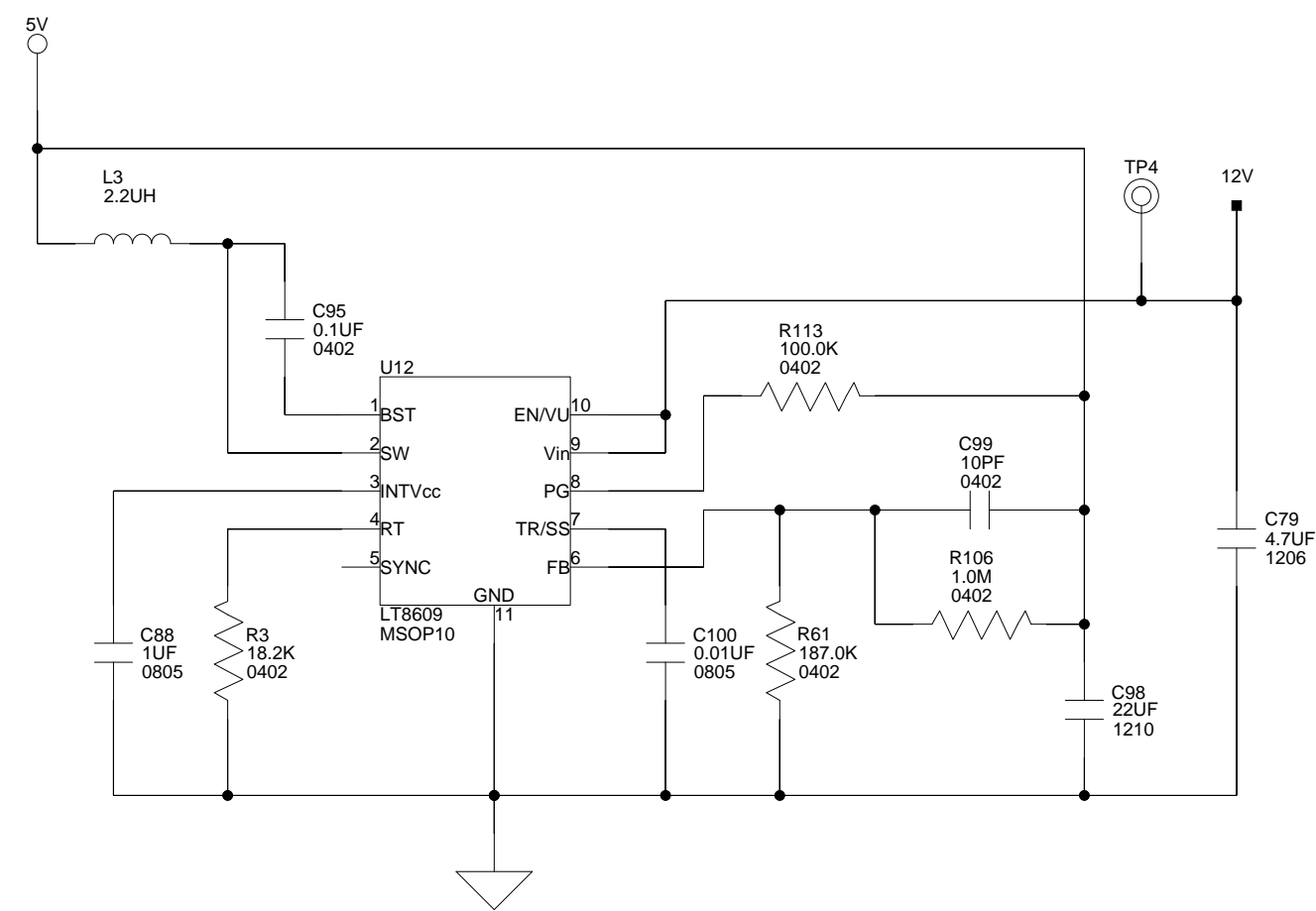
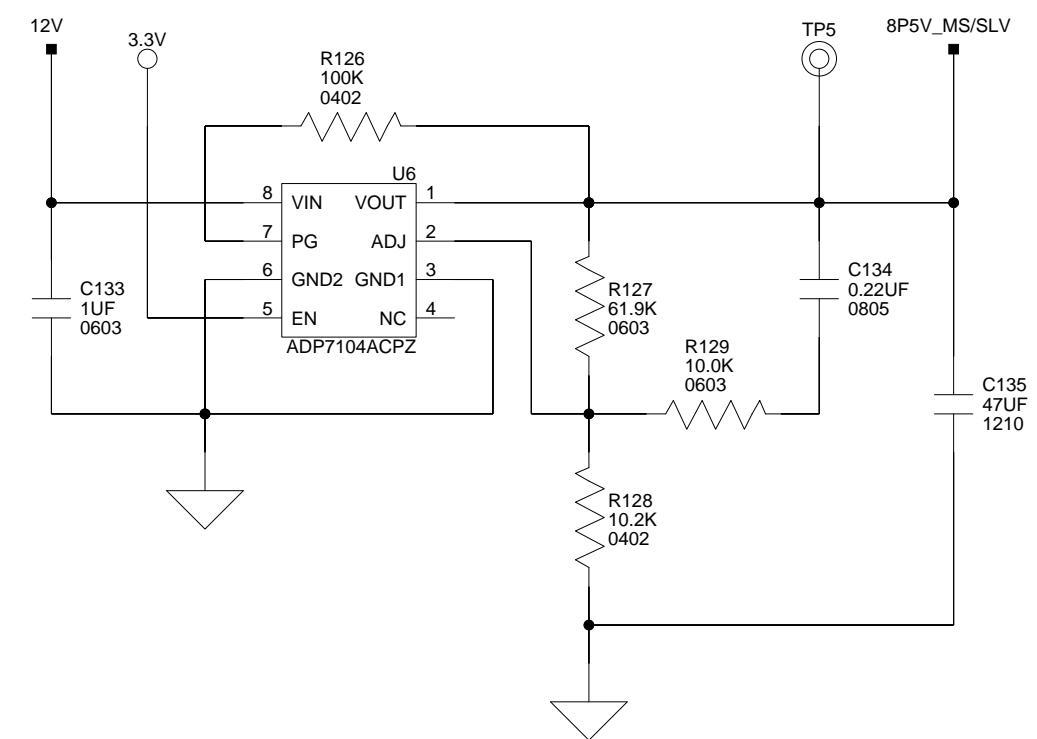
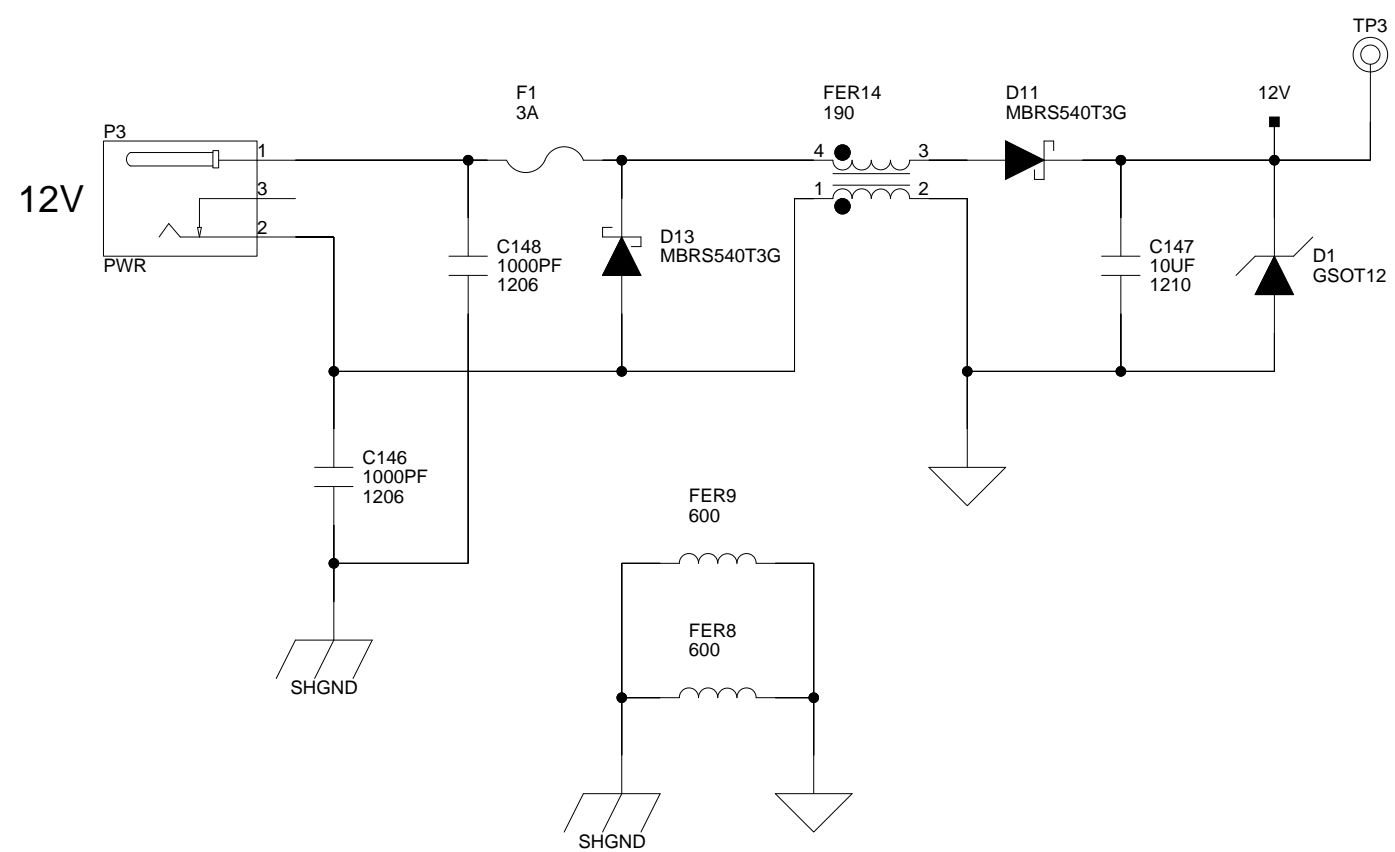
D




GND Test Points are scattered on PCB for Test Measurement Purposes.
 LABEL "GND" ON ALL TPs



		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board Power	
Size C	Board No. A0939-2016	Rev 1.4	
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		2 Elizabeth Drive Chelmsford, MA 01824 PH: 1-800-ANALOGD	
		Title ADSP-SC589 MINI Board A2B Power	
Size C	Board No. A0939-2016	Rev 1.4	
Date 10/12/16	Sheet 18 of 18		