

A

B

C

D

1

1

2

2

# ADSP-21369 EZ-KIT Lite Schematic

3

4

4

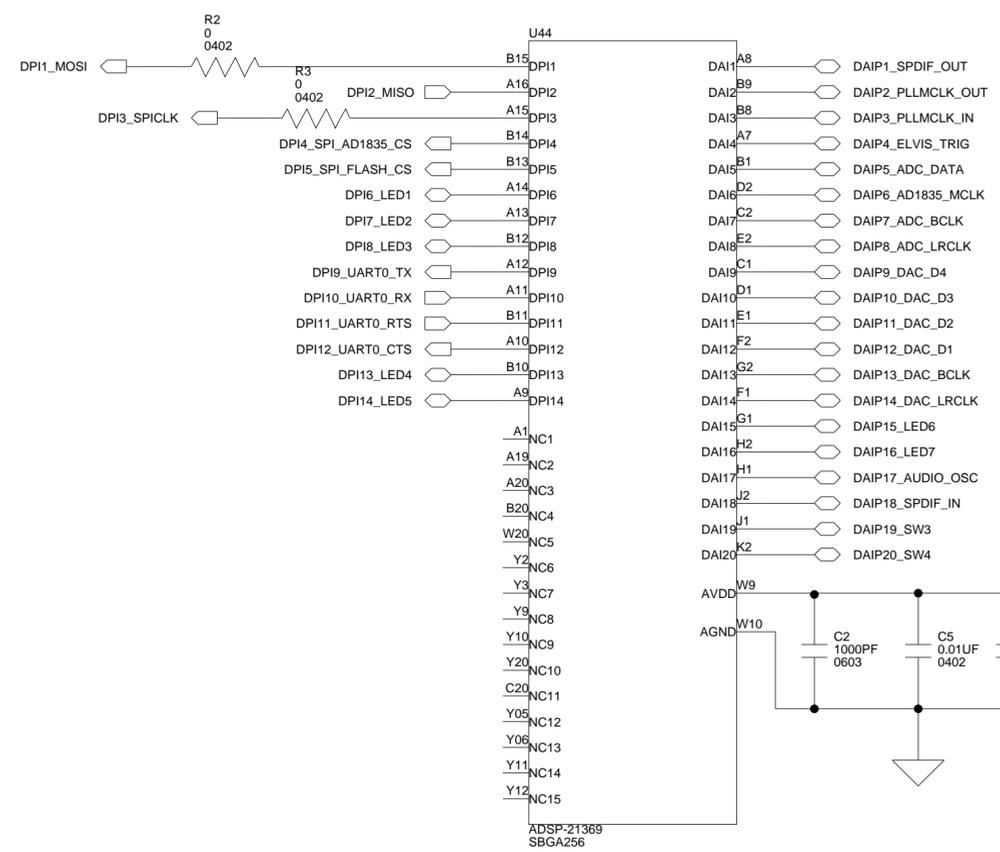
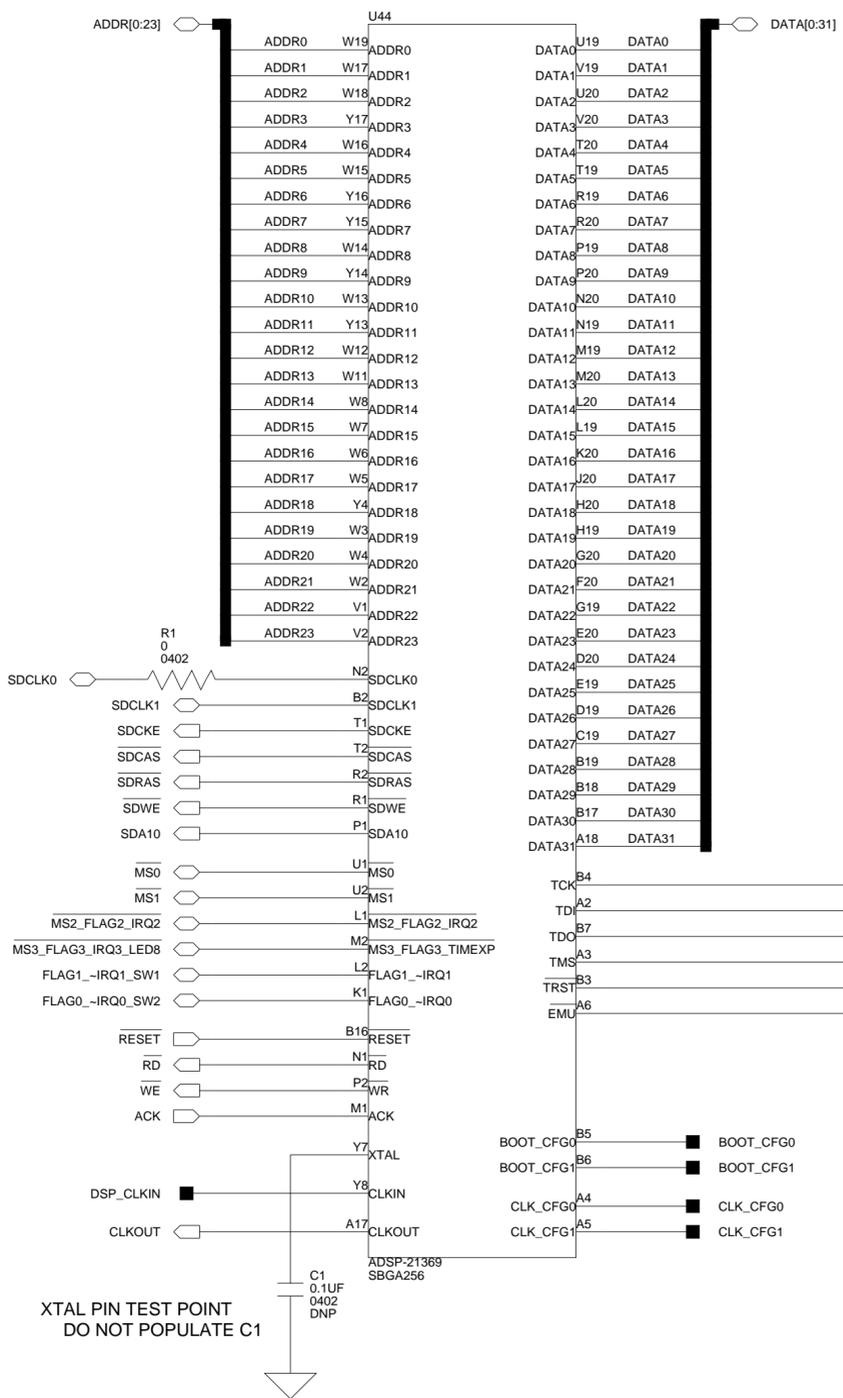
		<b>ANALOG DEVICES</b>	20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD
<b>Title</b>		ADSP-21369 EZ-KIT Lite TITLE	
<b>Size</b> C	<b>Board No.</b>	A0196-2005	<b>Rev</b> 2.1
<b>Date</b>	5-31-2006_10:38	<b>Sheet</b>	1 of 13

A

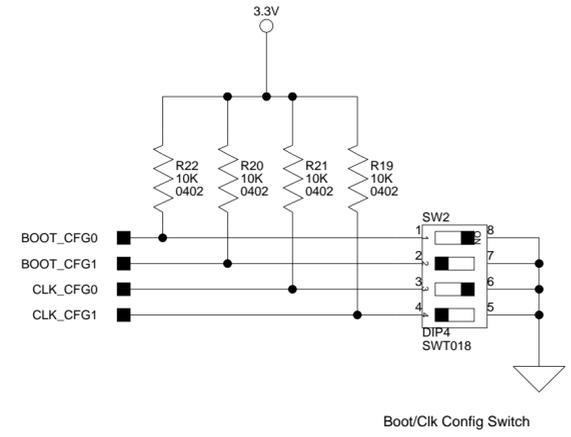
B

C

D

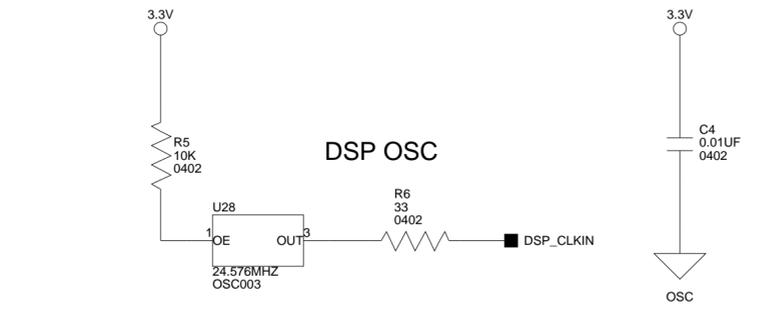


When designing your JTAG interface please refer to the Engineer Note EE-68 which can be found at <http://www.analog.com>



SW2: BOOT/CLOCK RATIO SELECT  
 (Default: 1=ON, 2=OFF, 3=ON, 4=OFF)

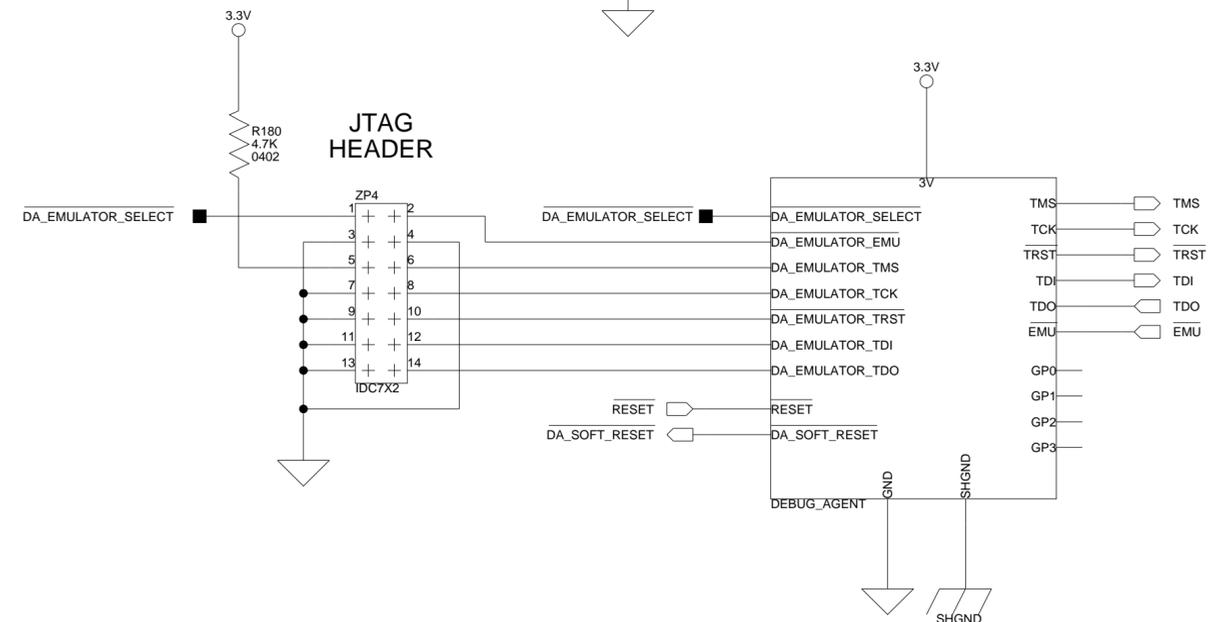
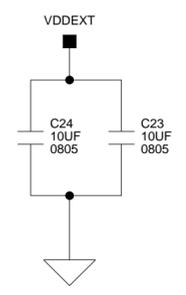
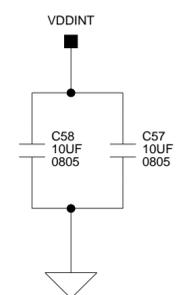
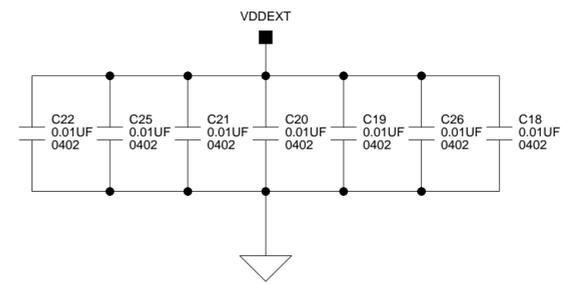
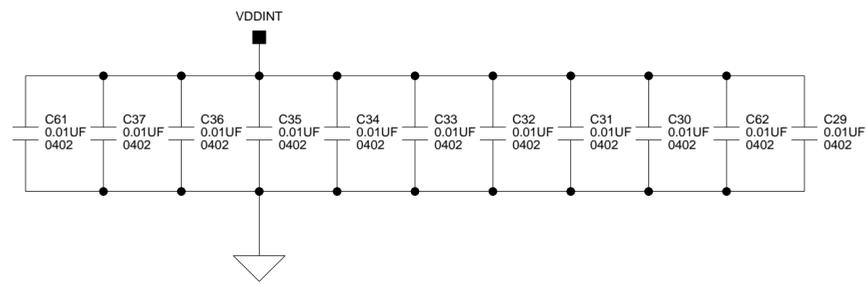
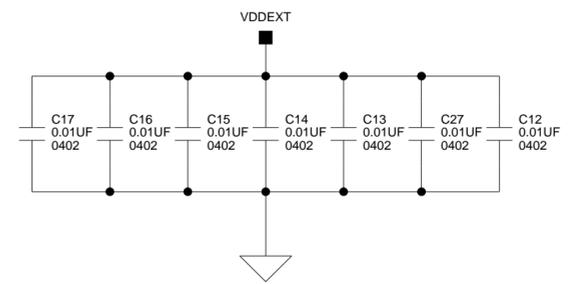
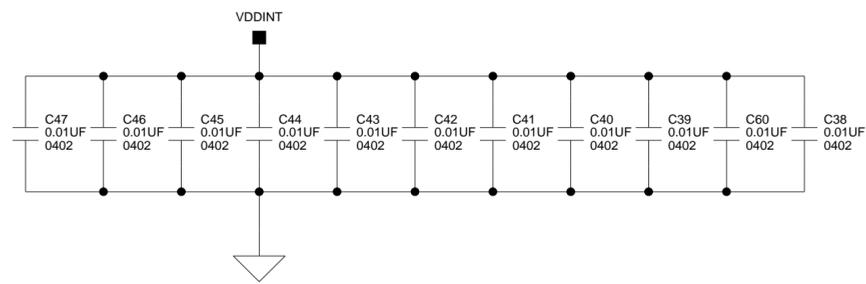
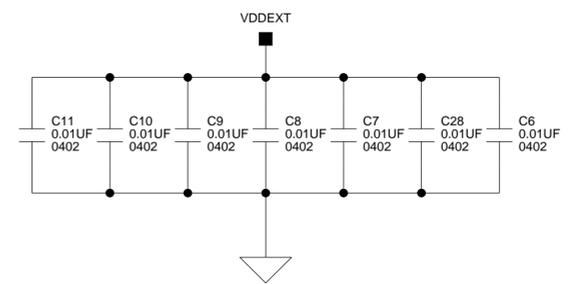
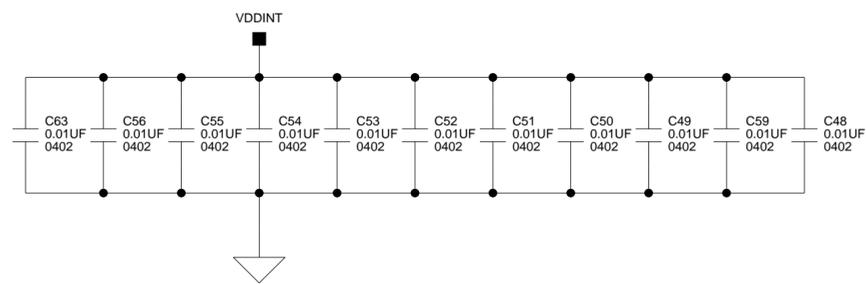
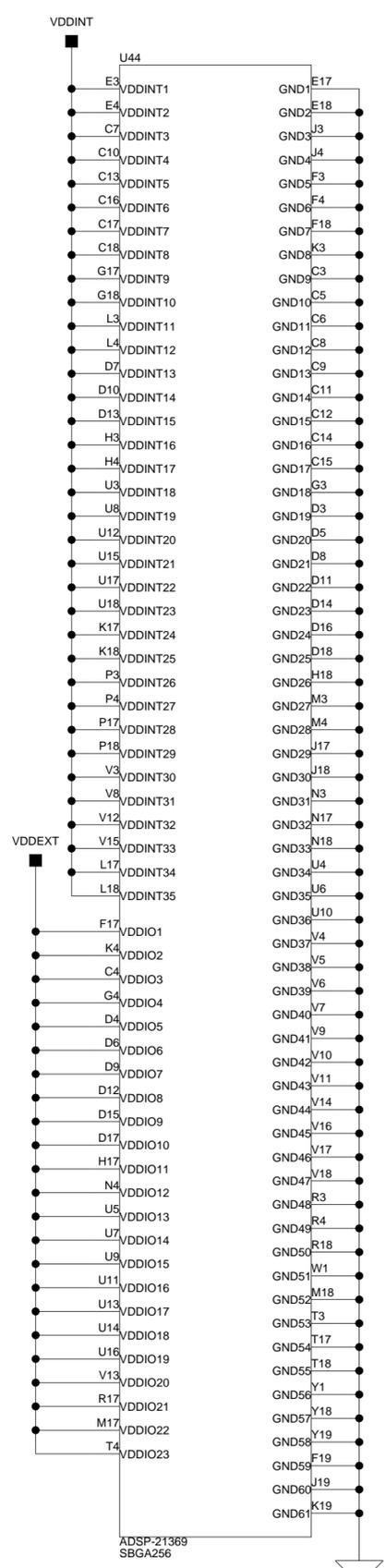
1	2	BOOTMODE	
BOOTCFG0 ON	BOOTCFG1 ON	SPI SLAVE BOOT	DEFAULT
BOOTCFG0 ON	BOOTCFG1 OFF	EPROM/FLASH BOOT	
BOOTCFG0 OFF	BOOTCFG1 ON	SPI MASTER BOOT	
BOOTCFG0 OFF	BOOTCFG1 OFF	RESERVED	
3	4	CLOCK RATIO	
CLKCFG0 ON	CLKCFG1 ON	CORE:CLKIN	DEFAULT
CLKCFG0 ON	CLKCFG1 OFF	6:1	
CLKCFG0 OFF	CLKCFG1 ON	16:1	
CLKCFG0 OFF	CLKCFG1 OFF	32:1	
		RESERVED	



**ANALOG DEVICES**

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

<b>Title</b> ADSP-21369 EZ-KIT Lite DSP		
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1
<b>Date</b> 5-31-2006_10:38	<b>Sheet</b> 2 of 13	

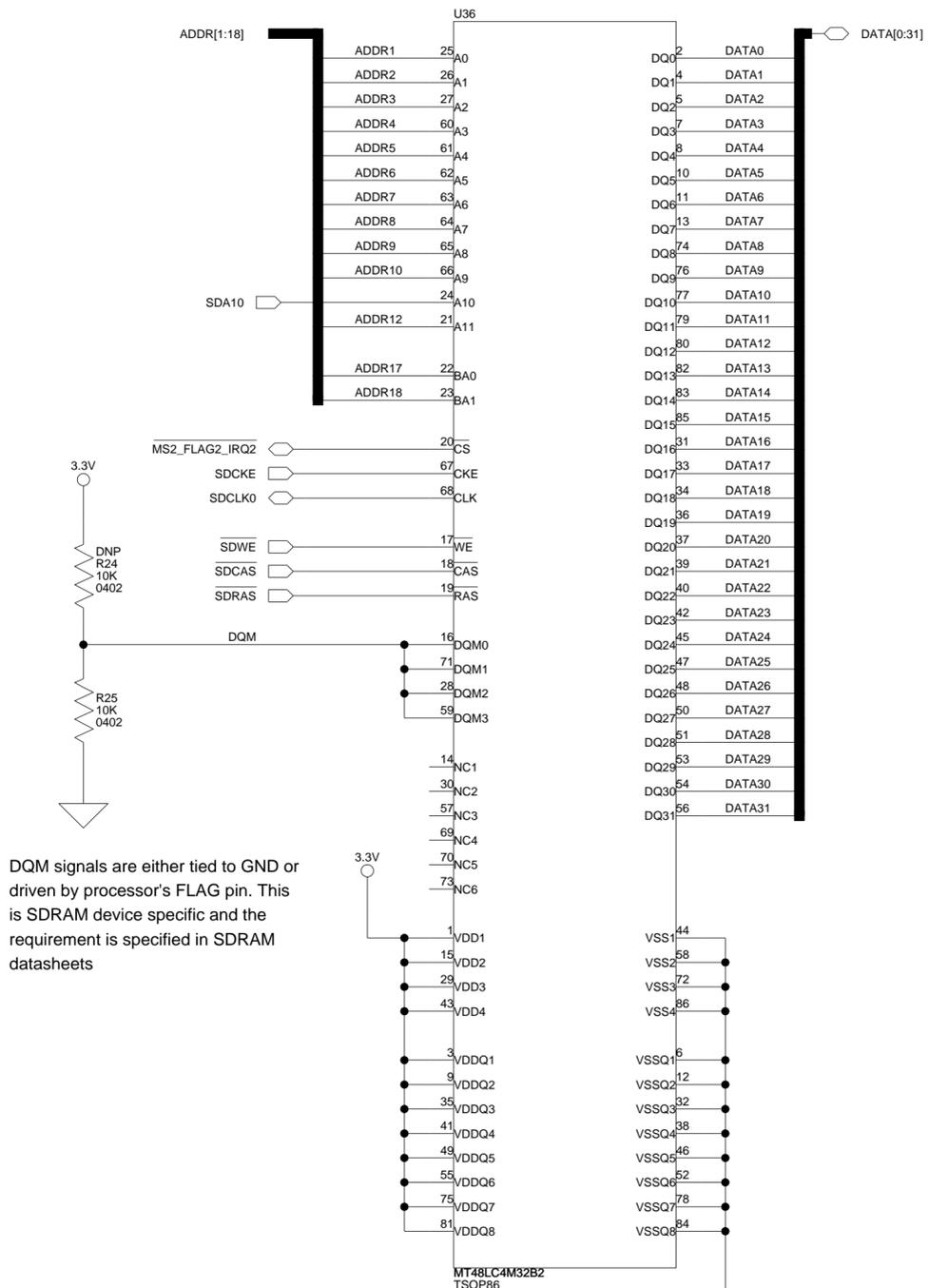


All USB interface circuitry is considered proprietary and has been omitted from this schematic.

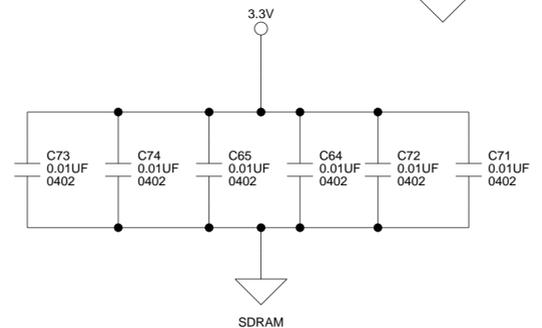
When designing your JTAG interface please refer to the Engineer to Engineer Note EE-68 which can be found at <http://www.analog.com>

		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
<b>Title</b> ADSP-21369 EZ-KIT Lite DSP 2			
<b>Size C</b>	<b>Board No.</b>	A0196-2005	<b>Rev</b> 2.1
<b>Date</b>	6-26-2006_16:38	<b>Sheet</b>	3 of 13

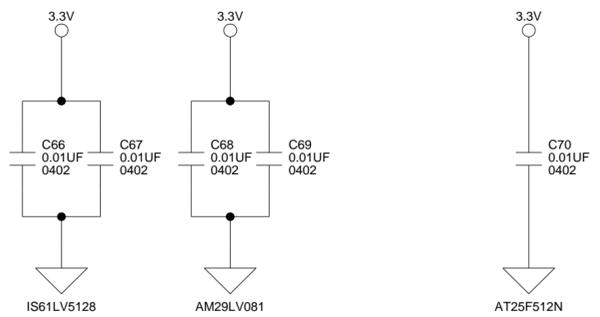
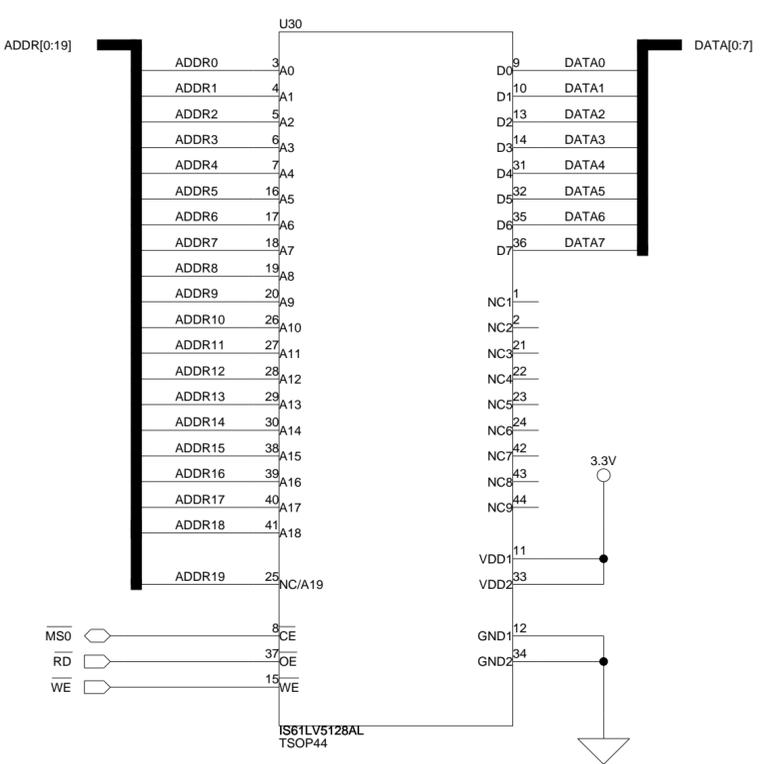
**SDRAM**  
128Mb (1M x 32-bit x 4 Banks)



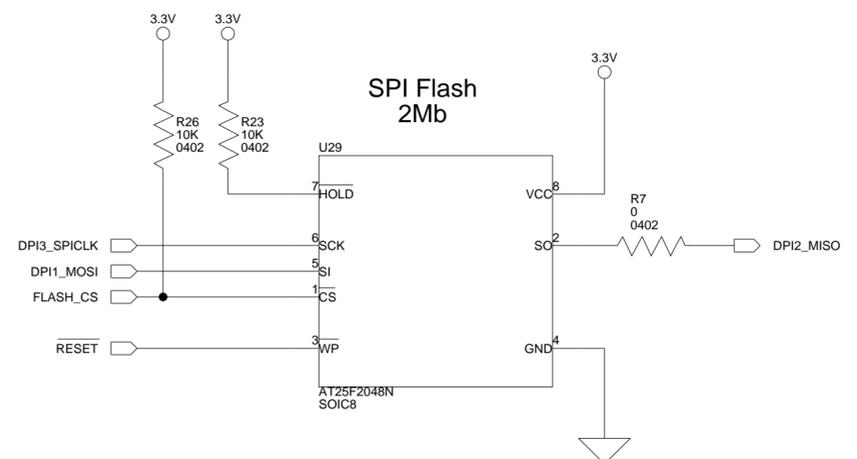
DQM signals are either tied to GND or driven by processor's FLAG pin. This is SDRAM device specific and the requirement is specified in SDRAM datasheets



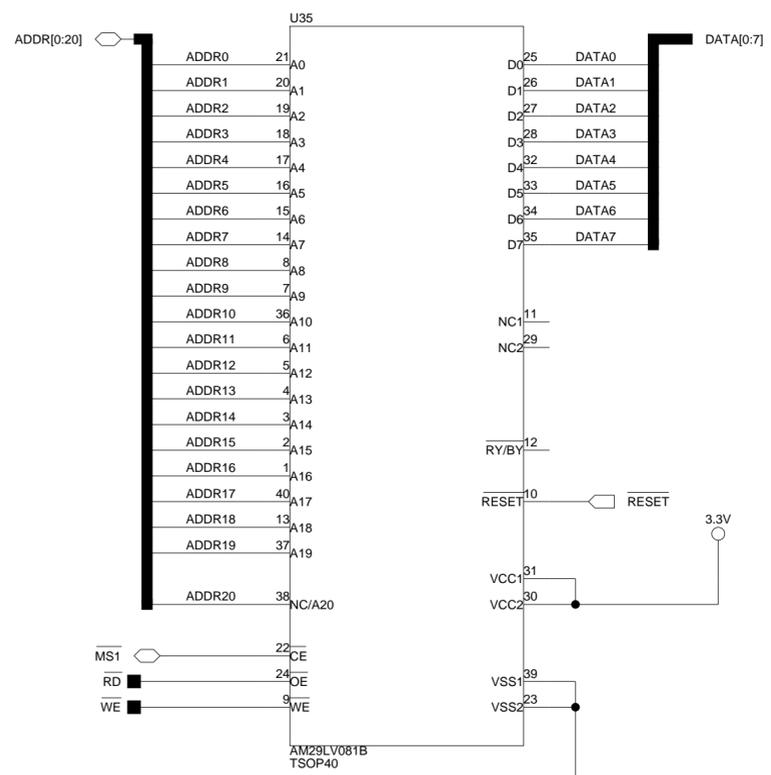
**Asynchronous SRAM**  
4Mb (512K x 8-bit)



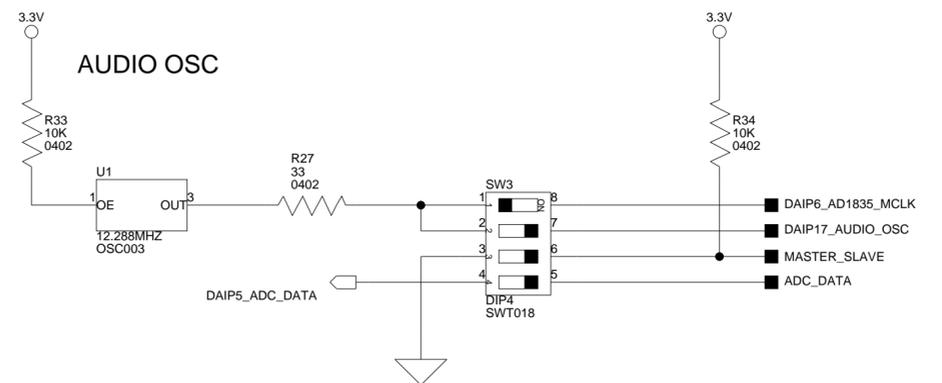
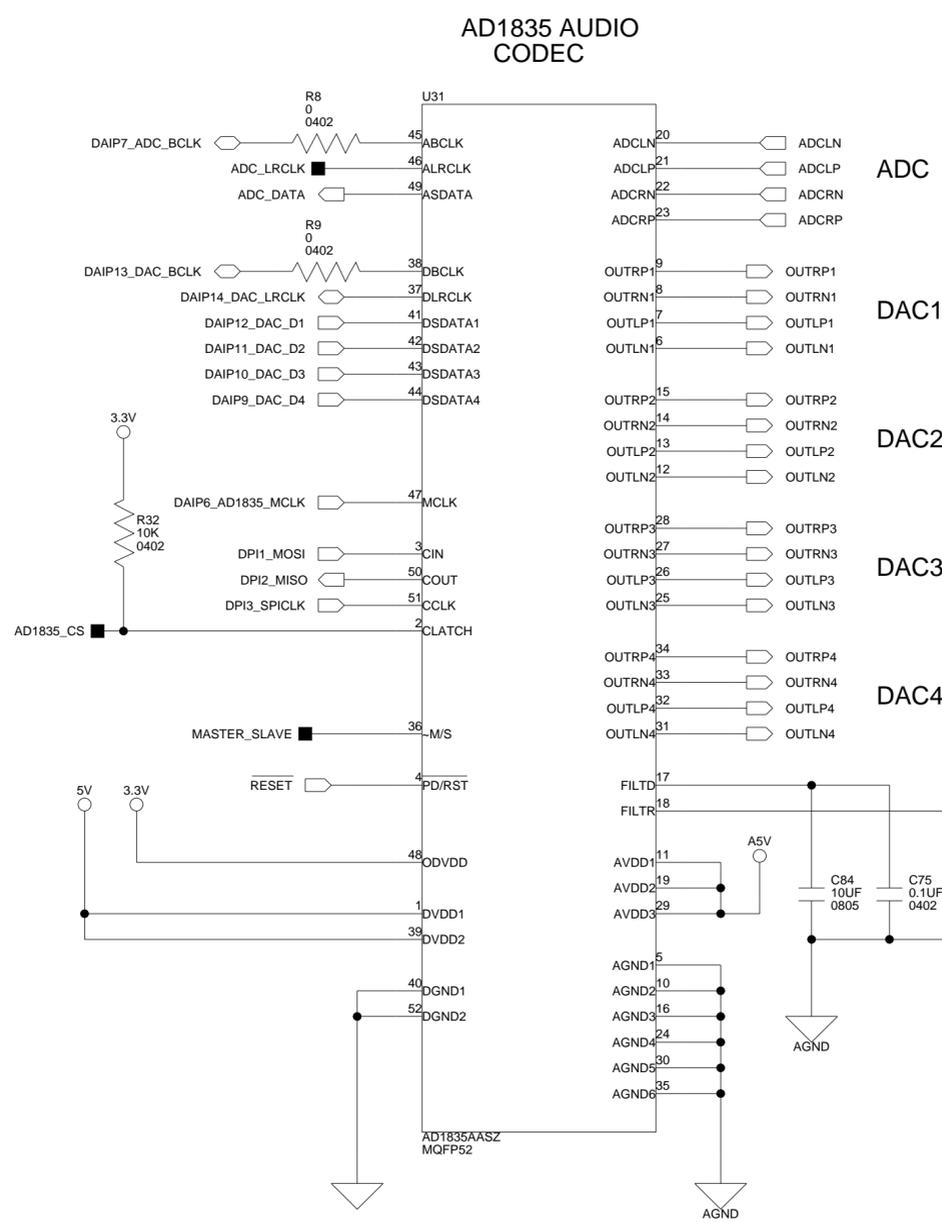
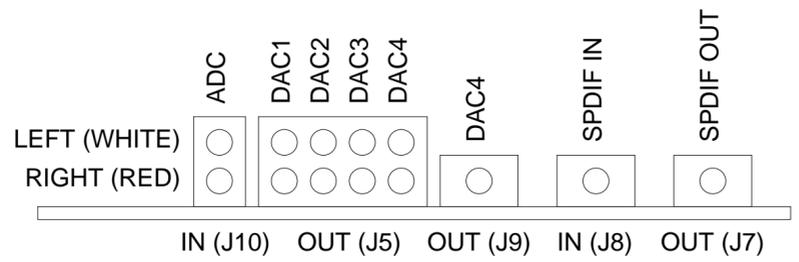
**SPI Flash**  
2Mb



**Flash**  
8Mb (1M x 8-bit)

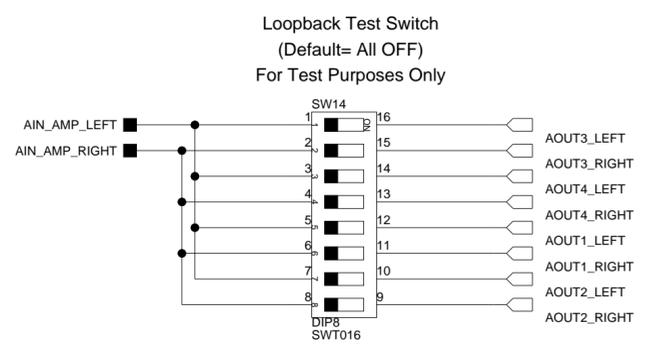
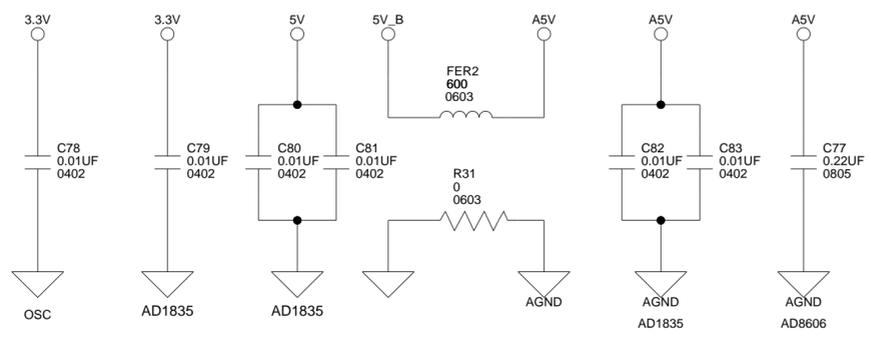
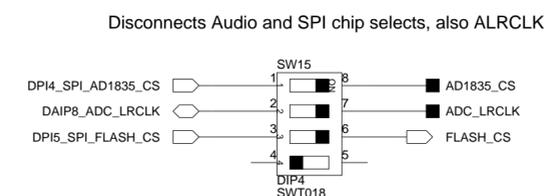
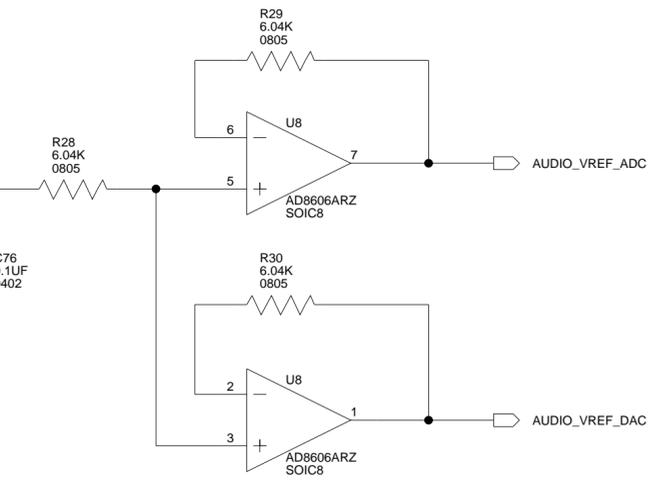


		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
<b>Title</b> ADSP-21369 EZ-KIT Lite MEMORY			
<b>Size C</b>	<b>Board No.</b>	A0196-2005	<b>Rev</b> 2.1
<b>Date</b>	5-31-2006_10:38	<b>Sheet</b>	4 of 13



SW3: CODEC SETUP SWITCH  
(Default: 1=OFF, 2=ON, 3=ON, 4=ON)

1-2	Connects or disconnects the audio oscillator depending on how the system is setup. See users manual for more information.
3	OFF = AD1835 is SLAVE ON = AD1835 is MASTER
4	Disconnects ADC_DATA signal from driving the corresponding DAI signal. Useful if using this DAI pin for another purpose.

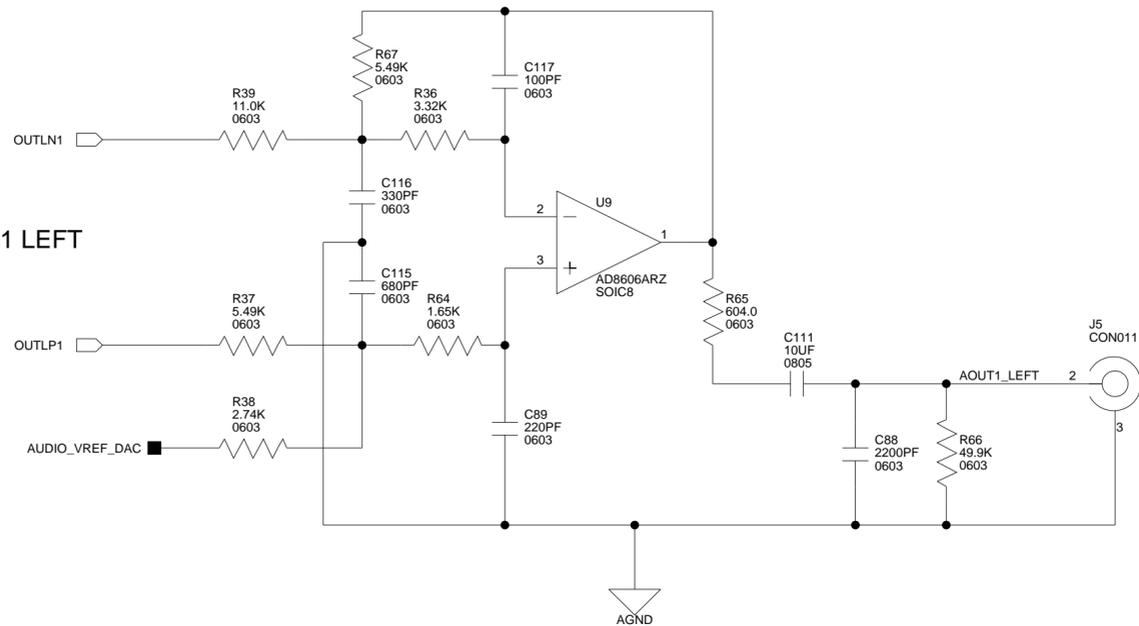


**ANALOG DEVICES**

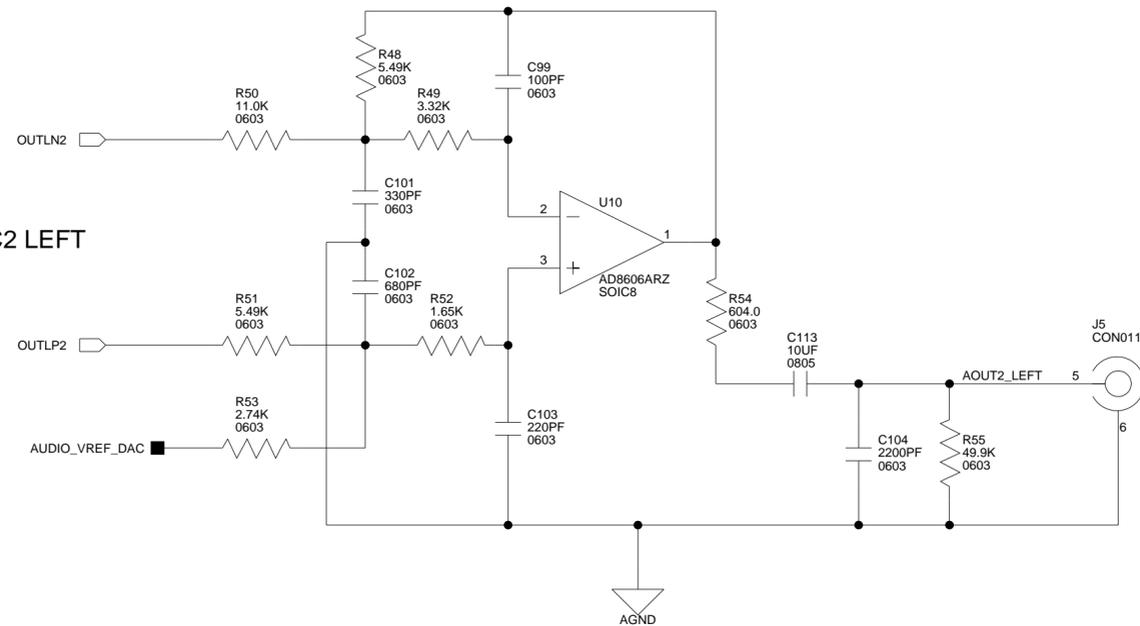
20 Cotton Road  
Nashua, NH 03063  
PH: 1-800-ANALOGD

<b>Title</b> ADSP-21369 EZ-KIT Lite ANALOG AUDIO		
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1
<b>Date</b> 5-31-2006_17:52	<b>Sheet</b> 5 <b>of</b> 13	

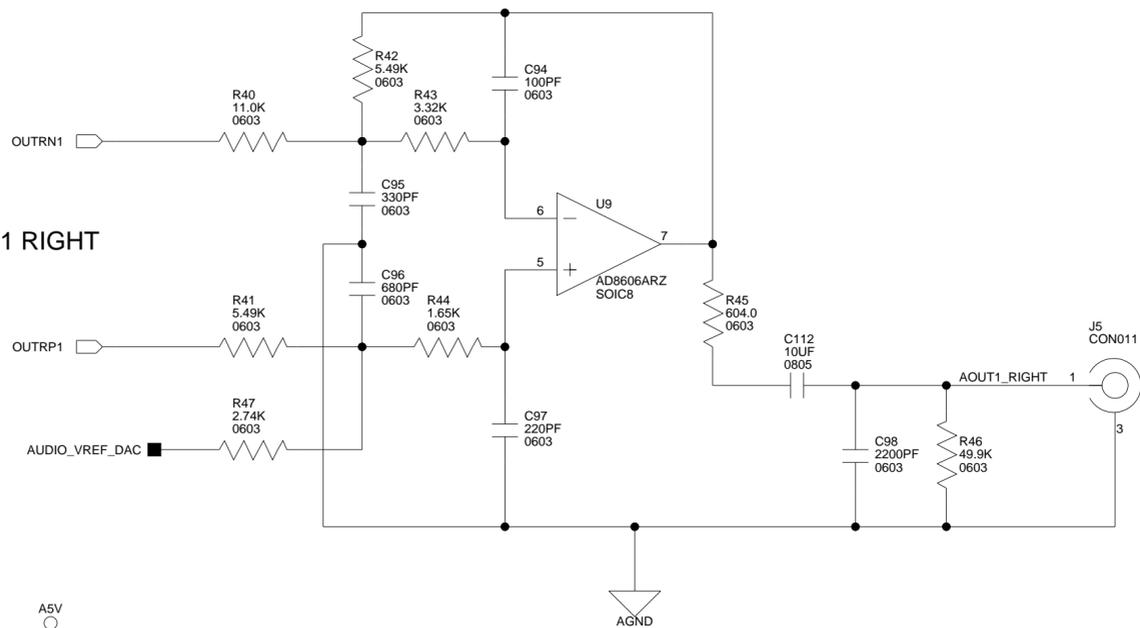
DAC1 LEFT



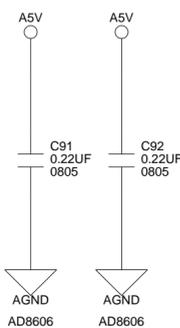
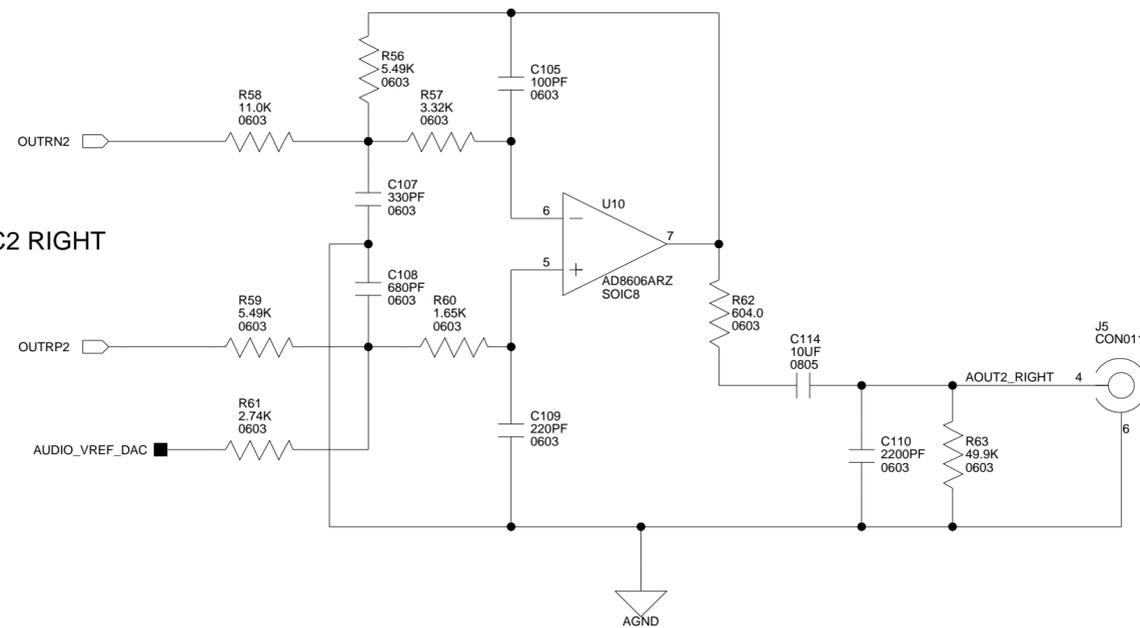
DAC2 LEFT



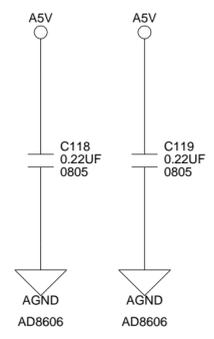
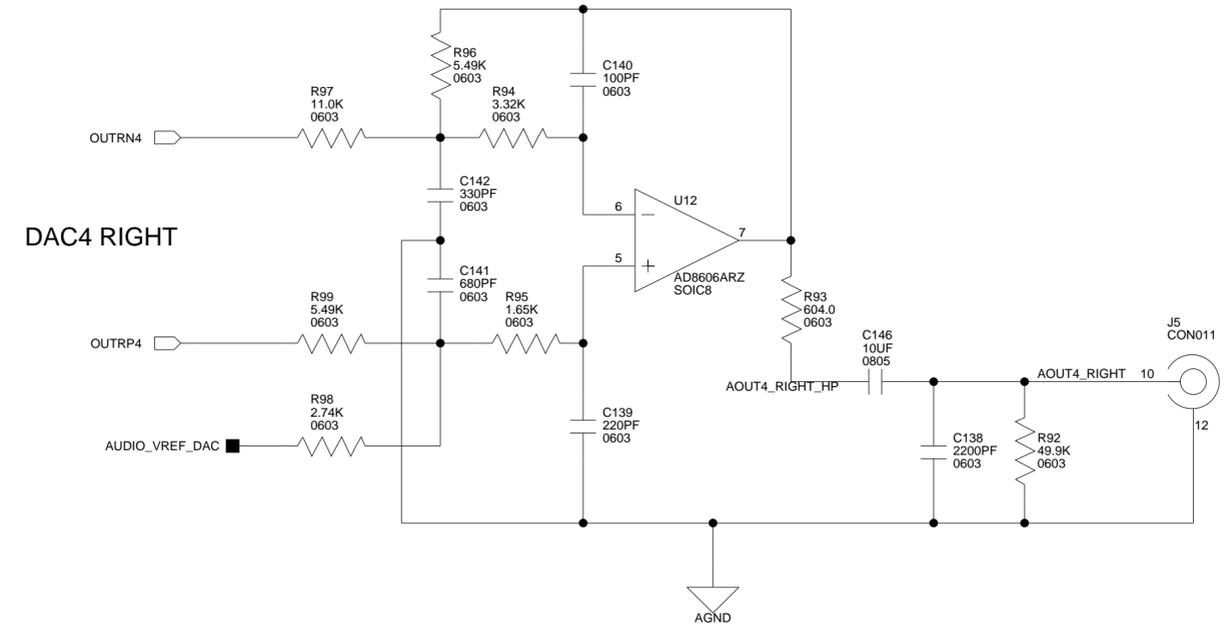
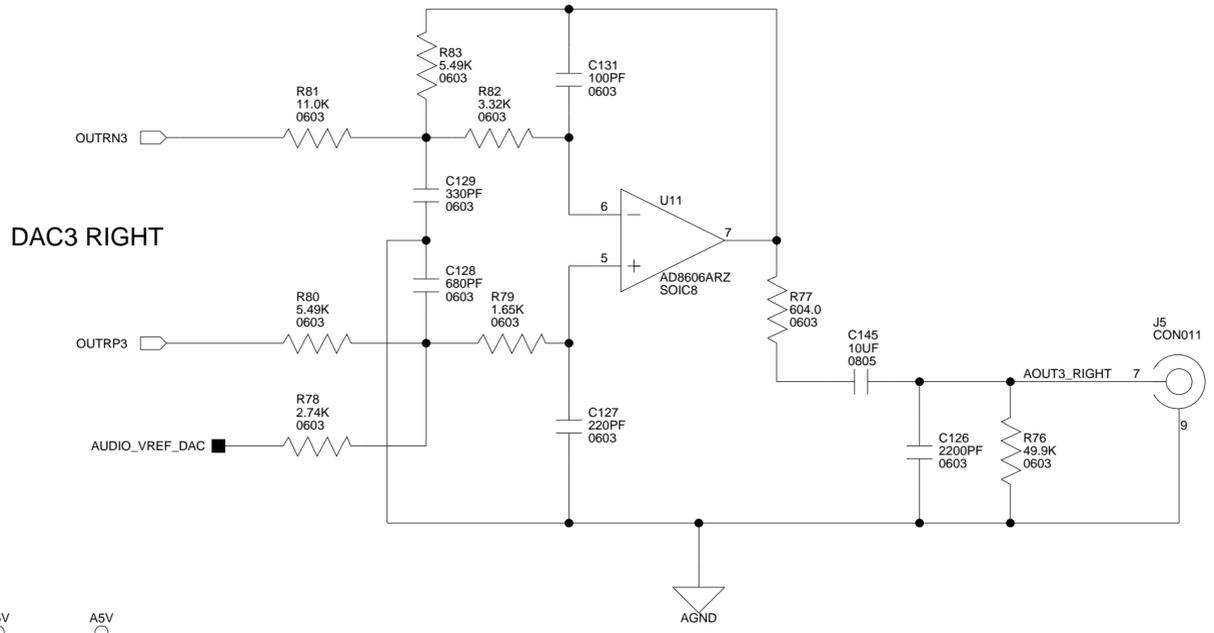
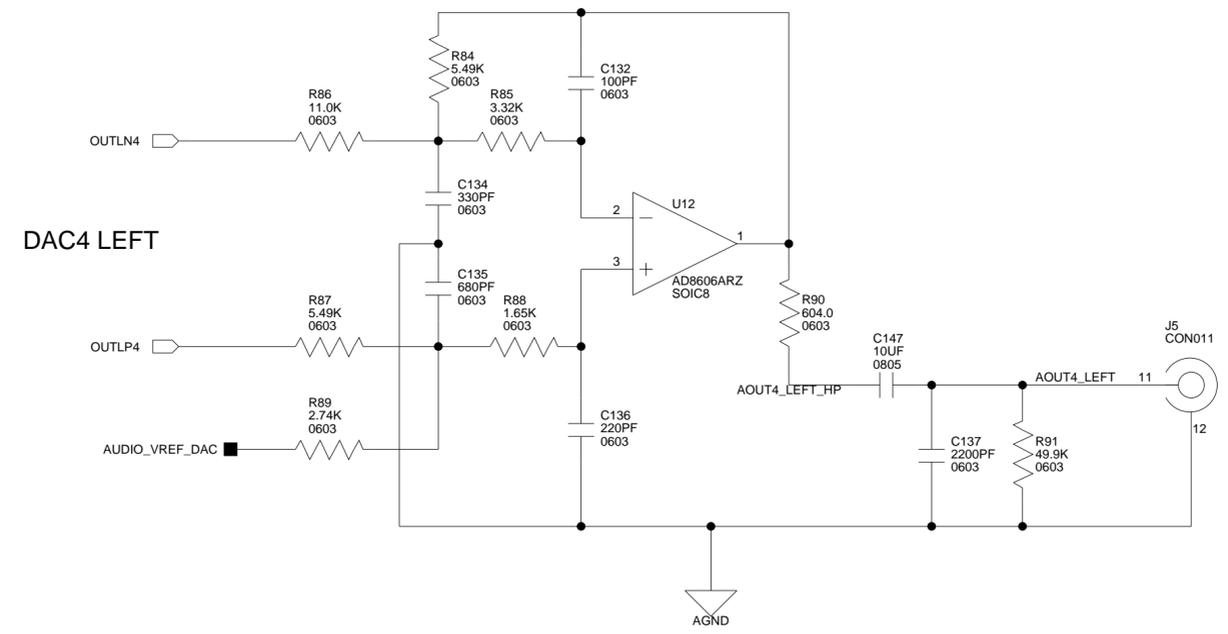
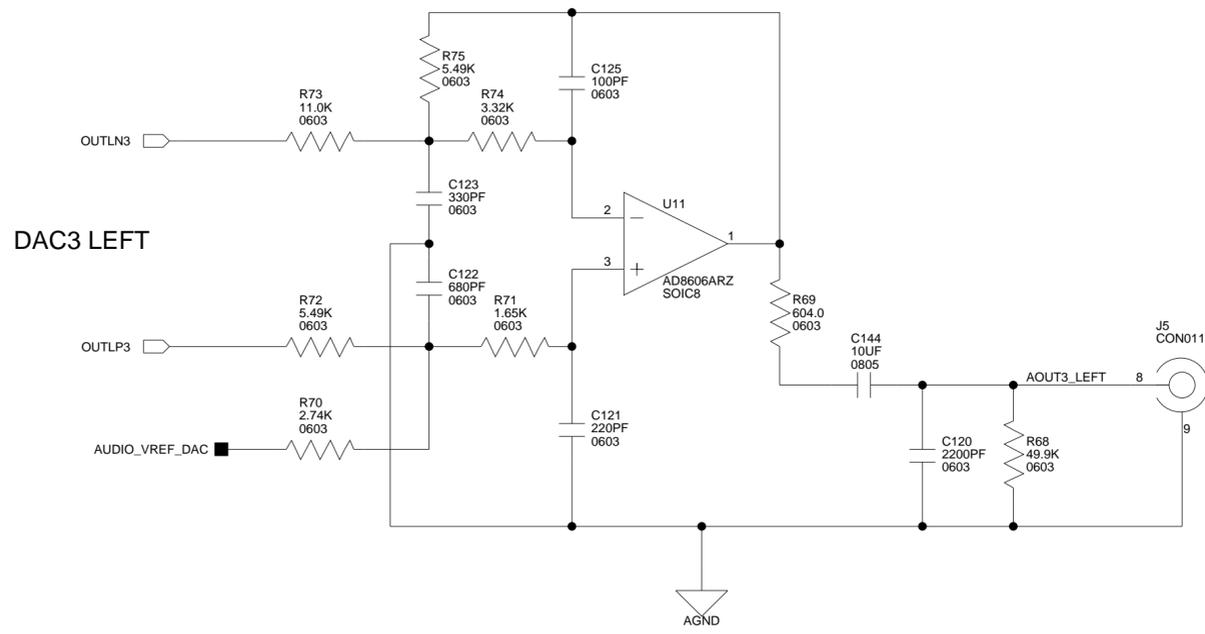
DAC1 RIGHT



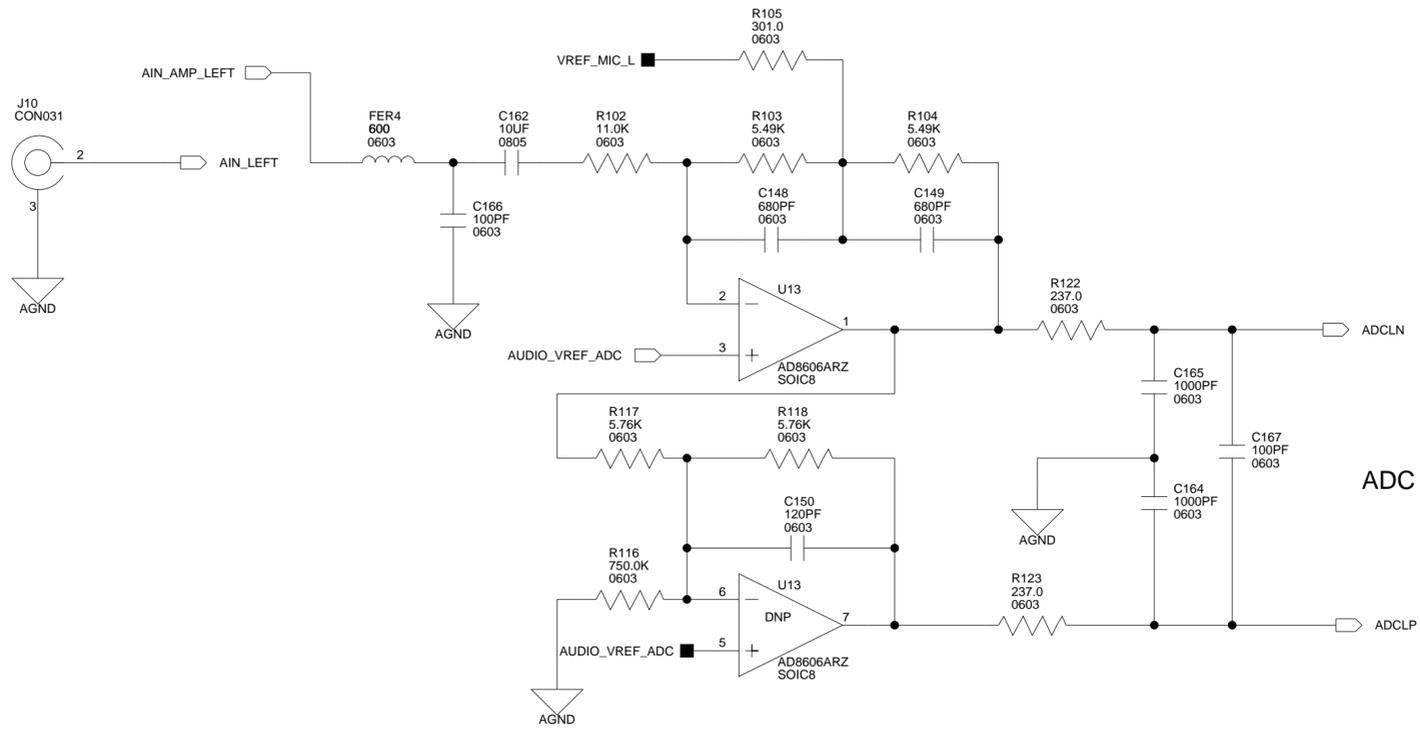
DAC2 RIGHT



 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite AUDIO OUT 1	
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 5-31-2006_10:38	<b>Sheet</b> 6 of		<b>13</b>

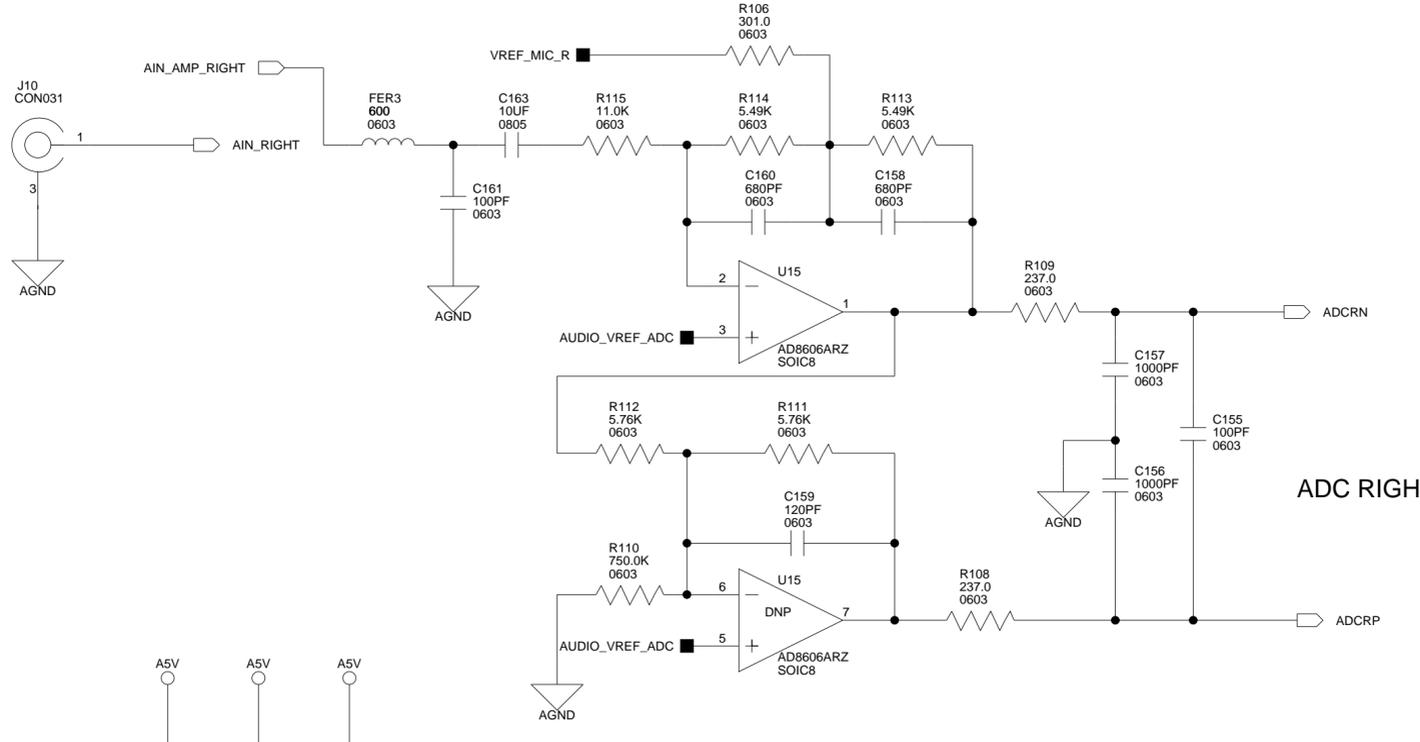
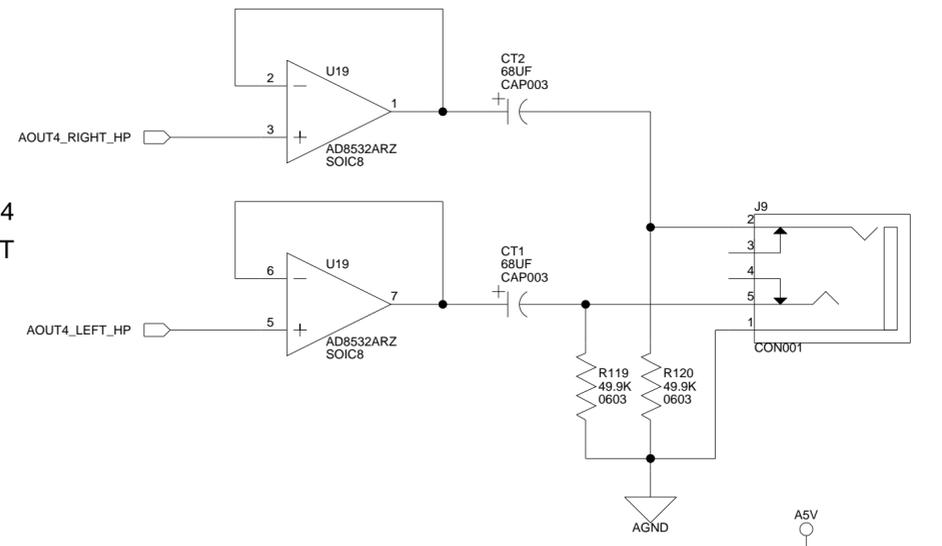


 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite AUDIO OUT 2	
<b>Size</b> C	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 5-31-2006_10:38	<b>Sheet</b> 7 of 13		

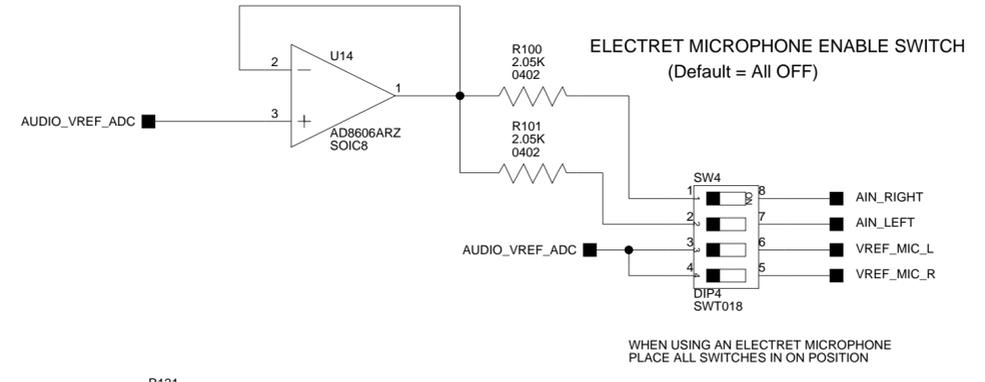


ADC LEFT

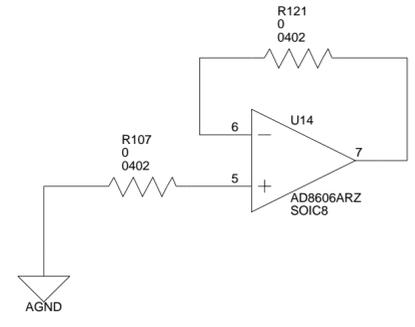
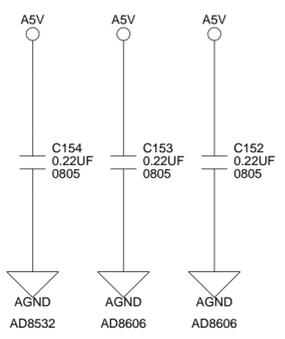
DAC4 HEADPHONE OUT



ADC RIGHT

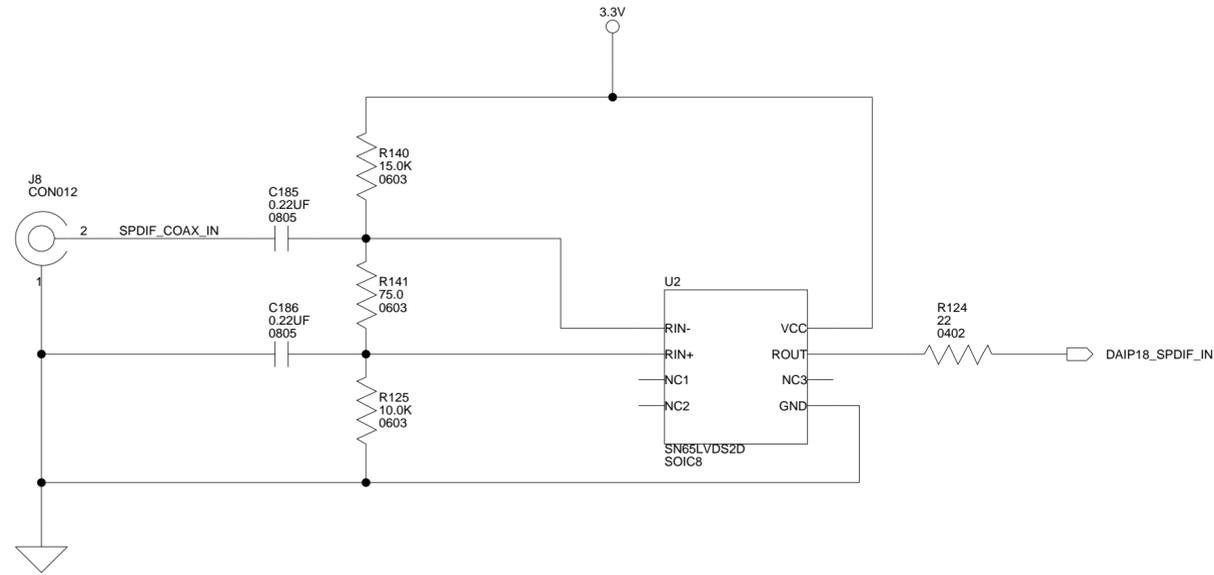


WHEN USING AN ELECTRET MICROPHONE PLACE ALL SWITCHES IN ON POSITION

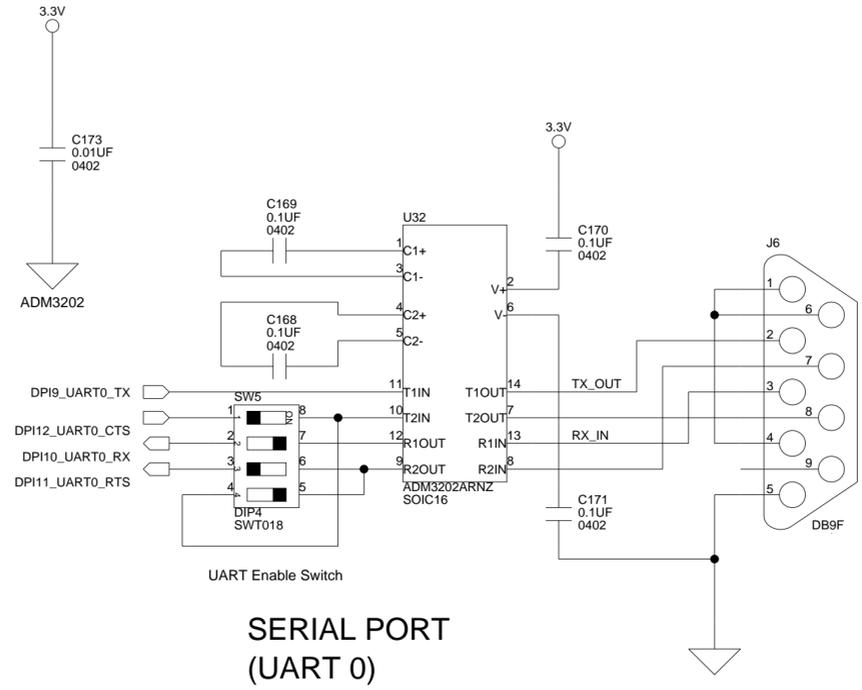


 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite AUDIO IN & HEADPHONE OUT	
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 5-31-2006_10:38	<b>Sheet</b> 8 of 13		

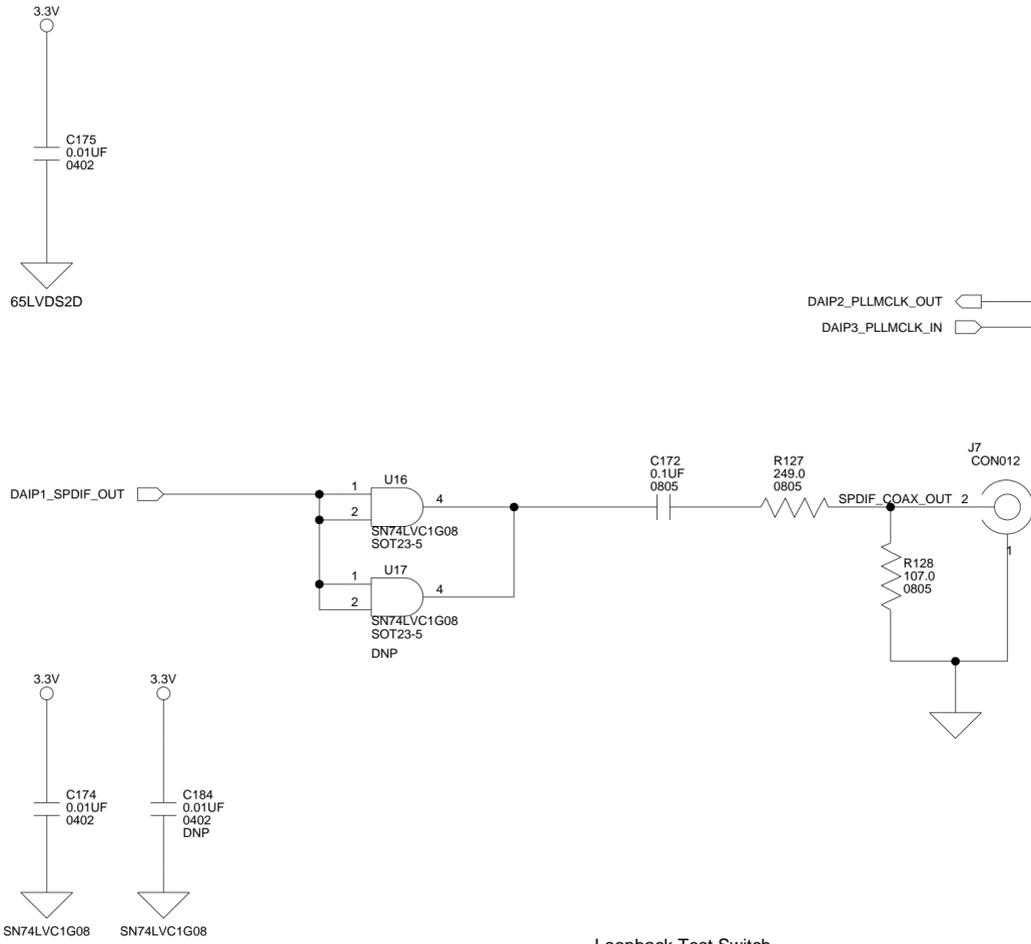
**SPDIF COAX INPUT**



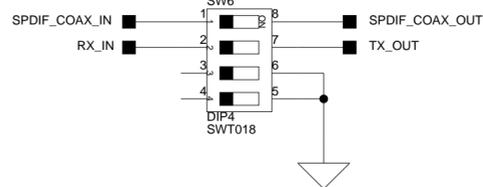
**SERIAL PORT (UART 0)**



**SPDIF COAX OUT**

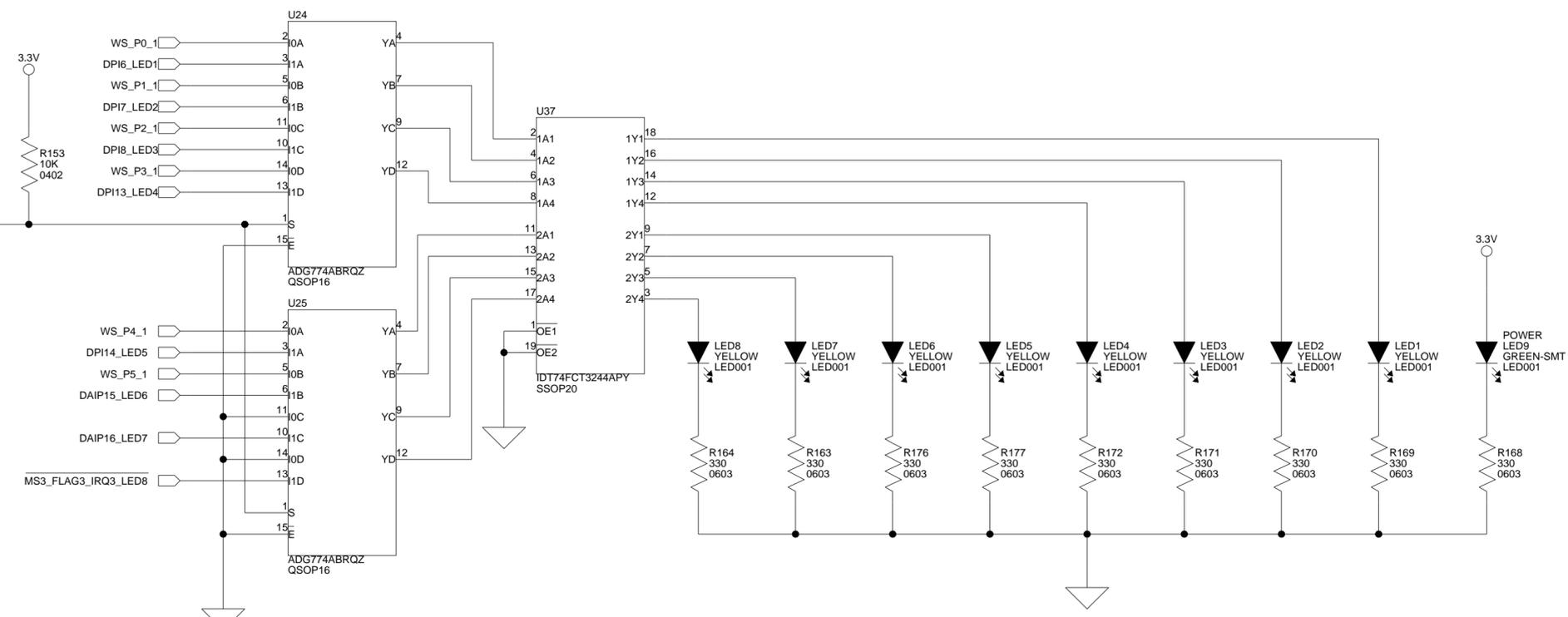
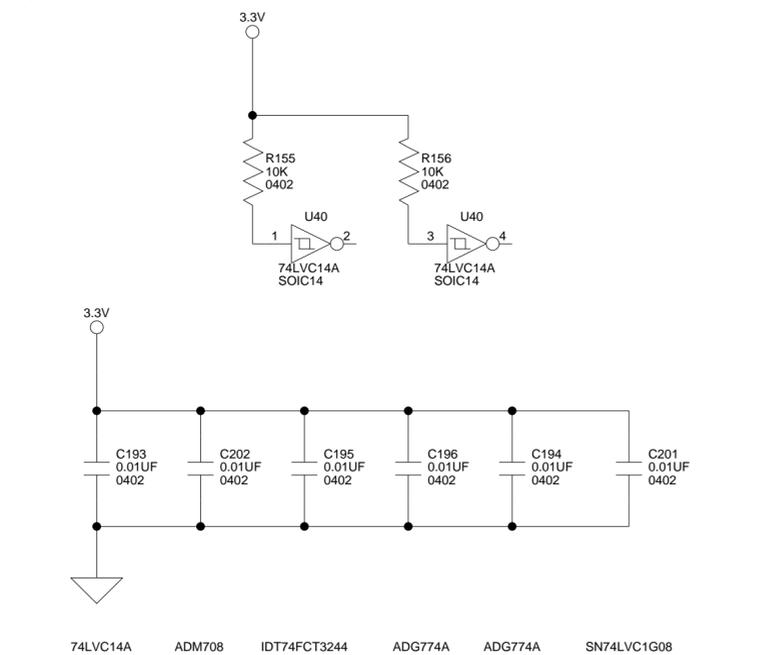
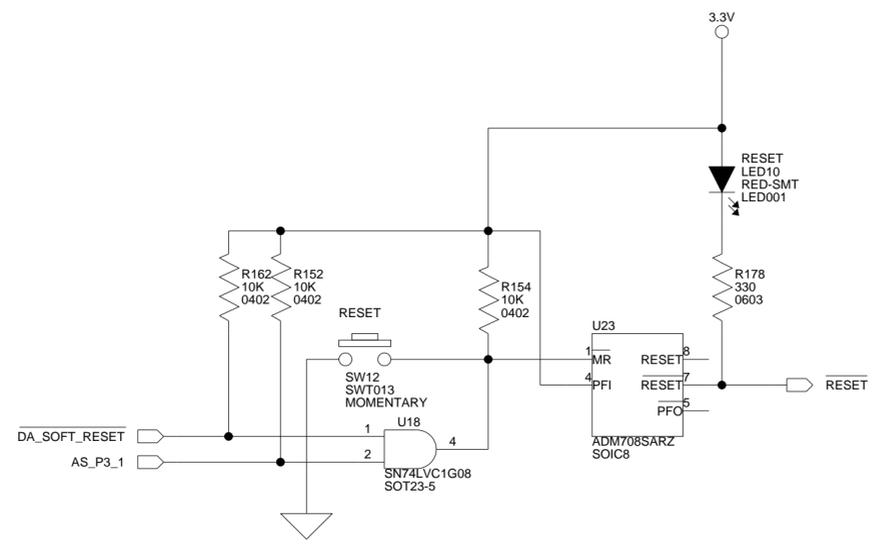
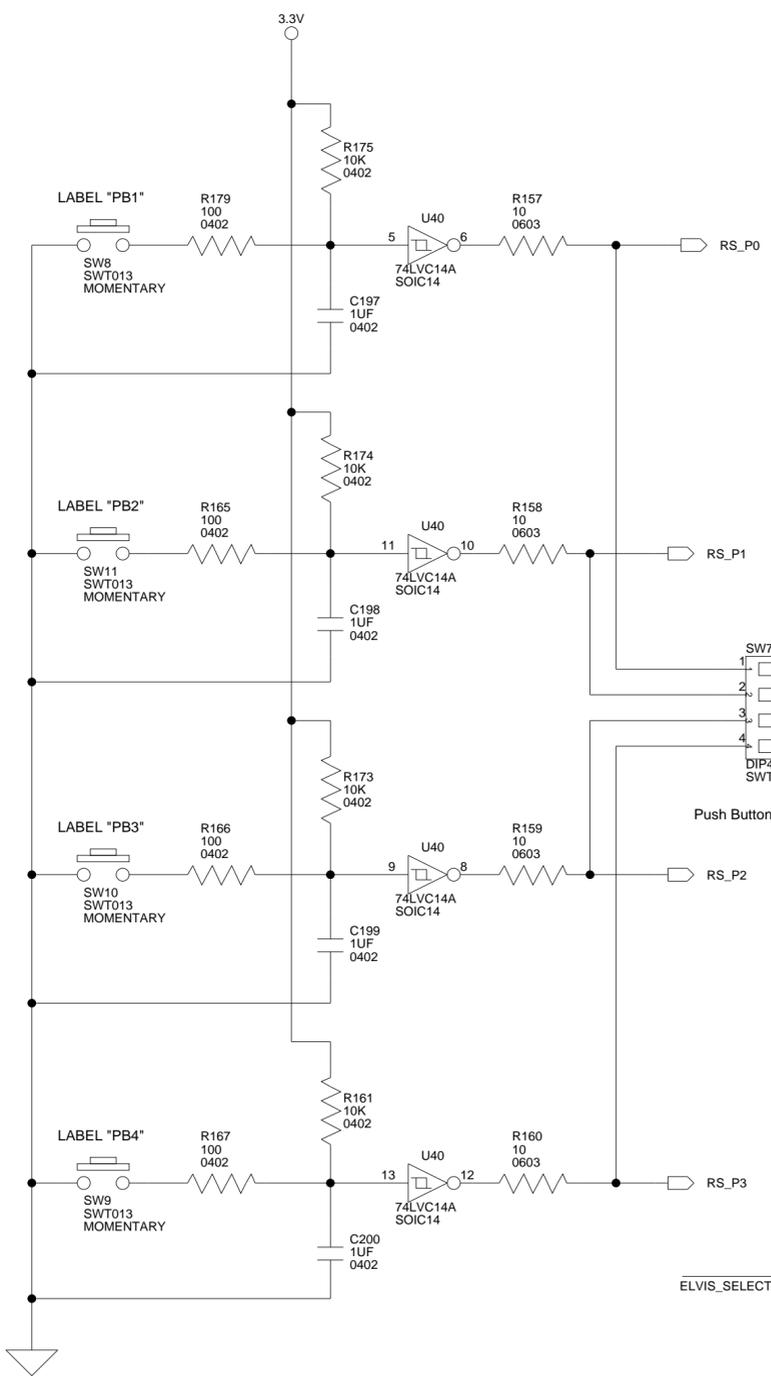


Loopback Test Switch  
(Default= All OFF)  
For Test Purposes Only



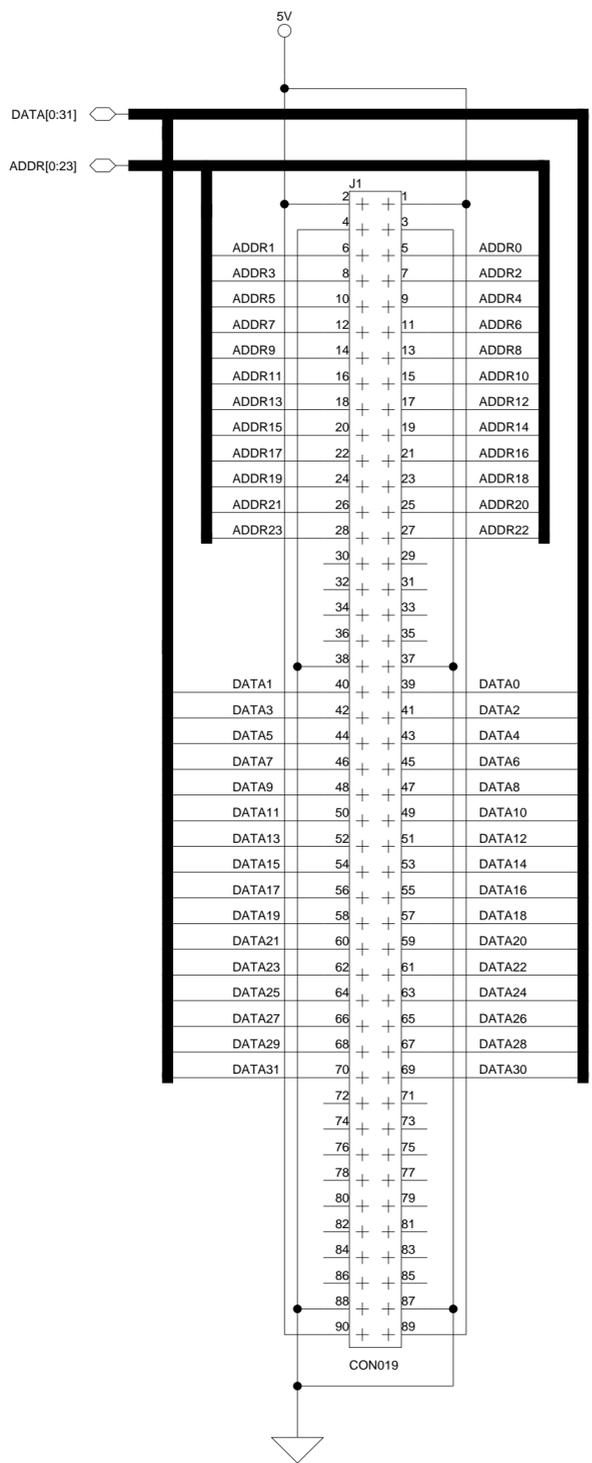
 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite EXTERNAL PLL, SPDIF, & RS-232	
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 5-31-2006_10:38	<b>Sheet</b> 9 of 13		



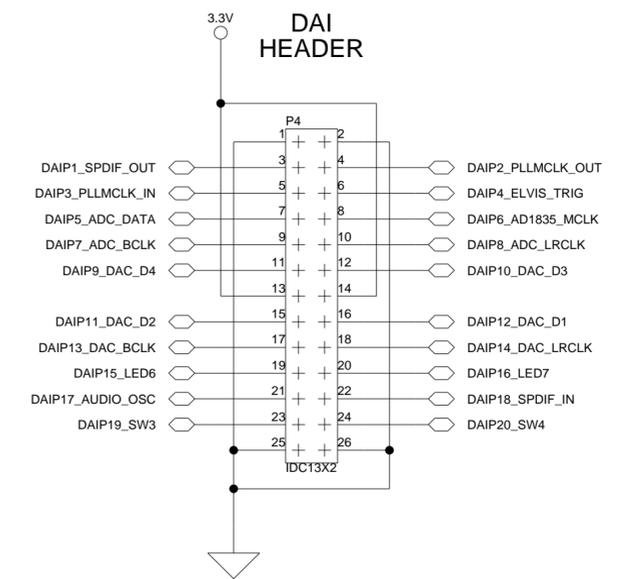
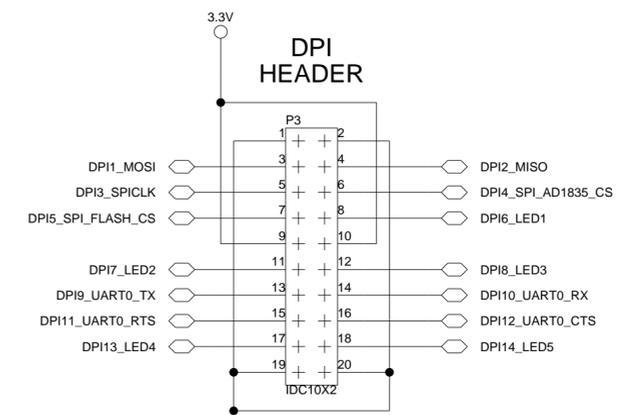
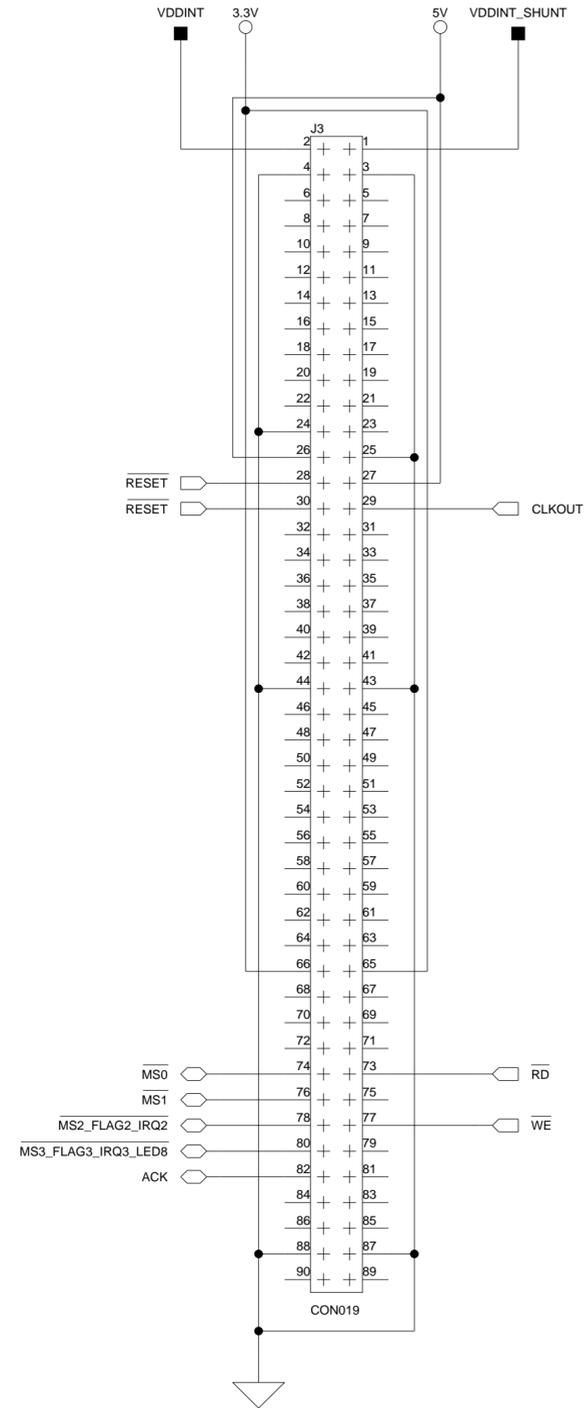
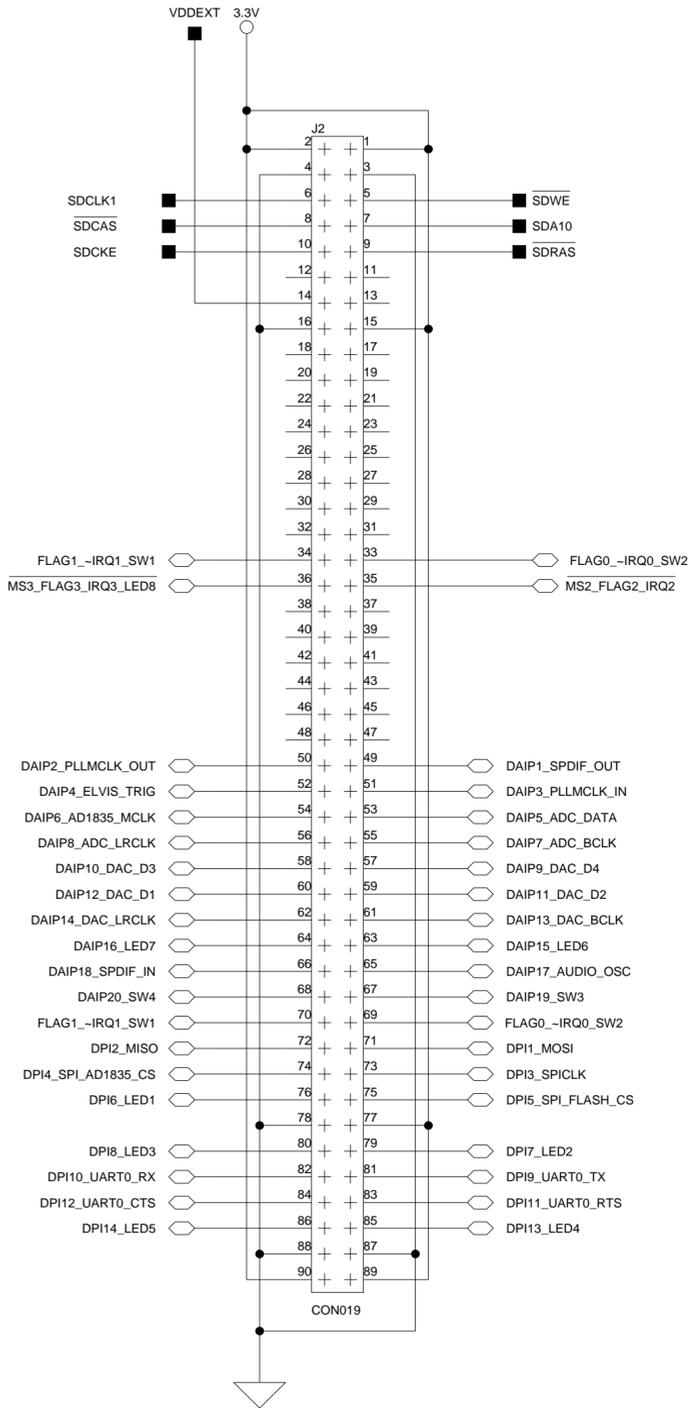


 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite PUSHBUTTONS, LEDS, & RESET	
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 6-26-2006_17:07	<b>Sheet</b> 11 of 13		

74LVC14A ADM708 IDT74FCT3244 ADG774A ADG774A SN74LVC1G08

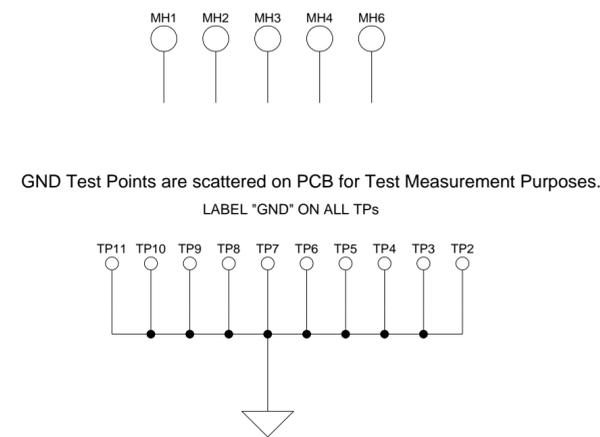
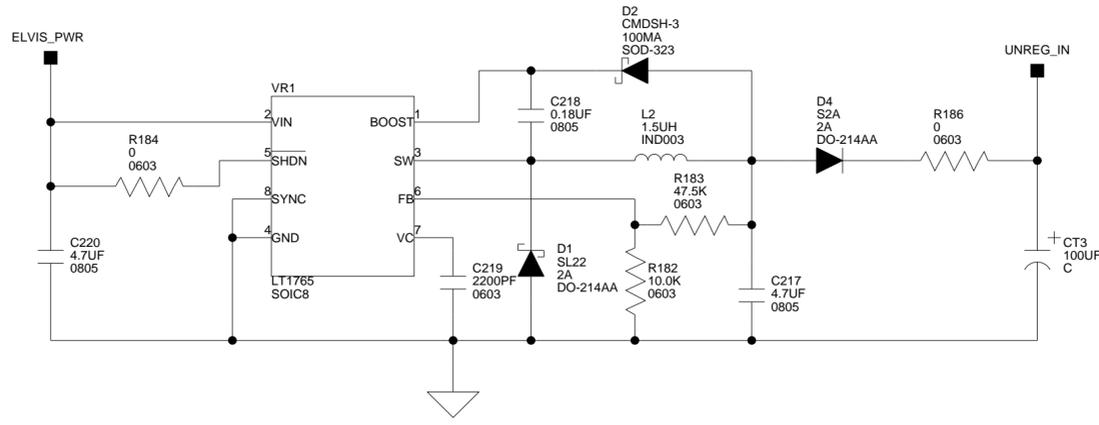
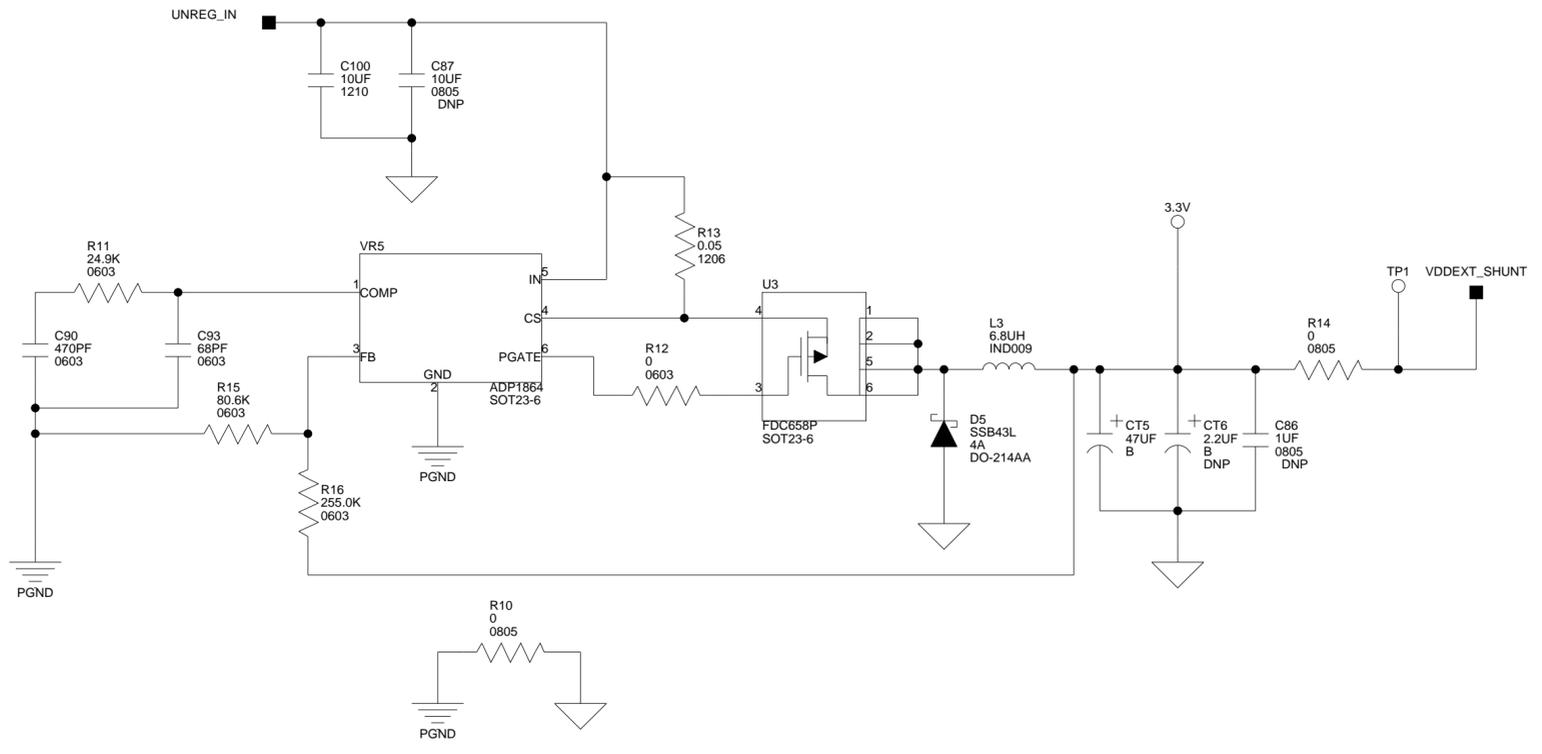
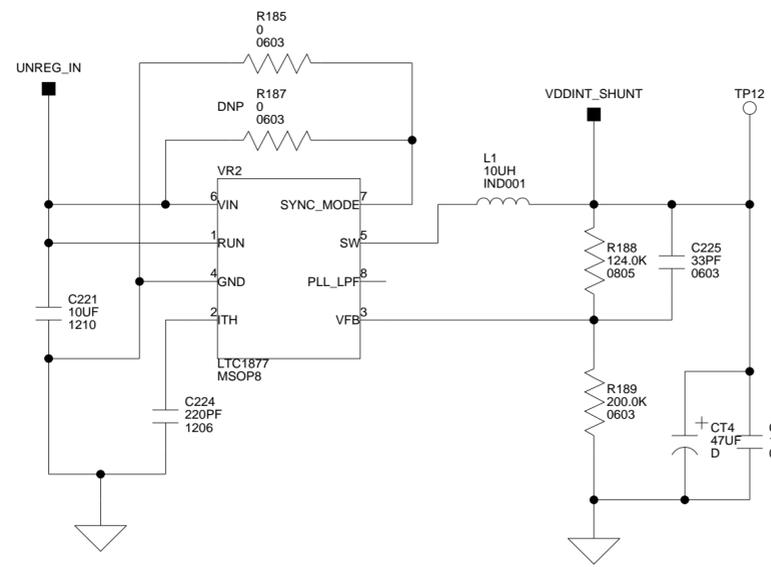
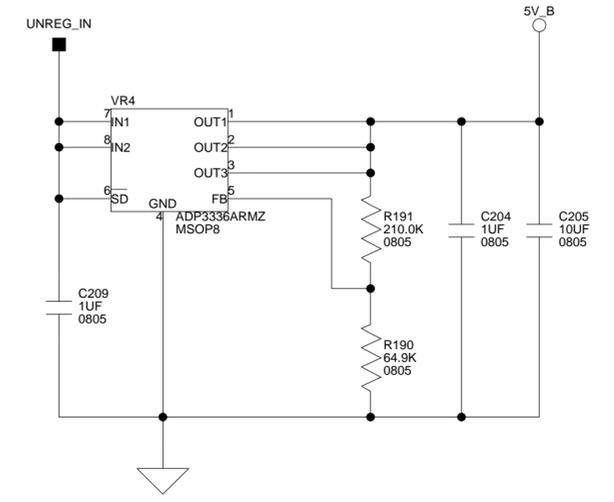
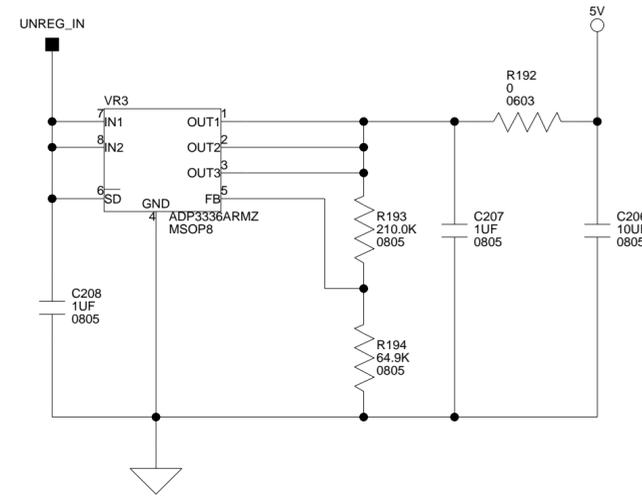
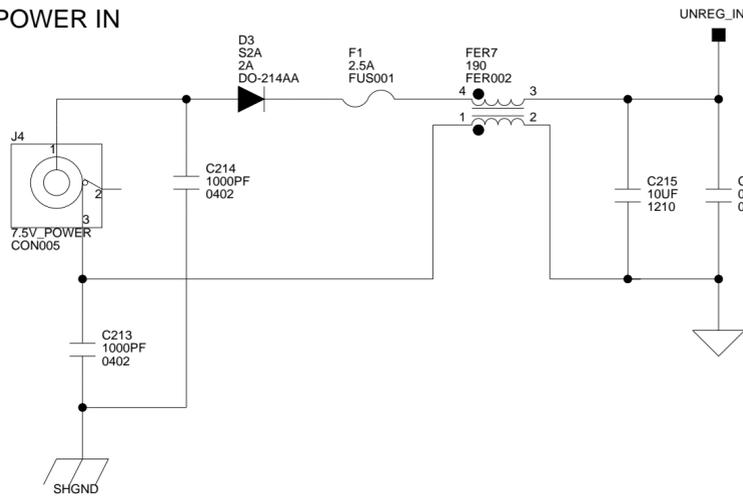


### EXPANSION INTERFACE (TYPE A)



 <b>ANALOG DEVICES</b>		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite EXPANSION INTERFACE	
<b>Size C</b>	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 5-31-2006_10:37	<b>Sheet</b> 12 of		<b>13</b>

POWER IN



		20 Cotton Road Nashua, NH 03063 PH: 1-800-ANALOGD	
		<b>Title</b> ADSP-21369 EZ-KIT Lite POWER	
<b>Size</b> C	<b>Board No.</b> A0196-2005	<b>Rev</b> 2.1	
<b>Date</b> 6-26-2006_17:00	<b>Sheet</b> 13 of 13		