

8 7 6 5 4 3 2 1

THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED IN FURNISHING INFORMATION TO OTHERS, OR FOR ANY OTHER PURPOSE DETRIMENTAL TO THE INTERESTS OF ANALOG DEVICES. THE EQUIPMENT SHOWN HEREON MAY BE PROTECTED BY PATENTS OWNED OR CONTROLLED BY ANALOG DEVICES.

JUMPER TABLE		
JP#	ON	OFF
1		
2		
3		
4		
5		

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	RELEASED	22JUN15	B H

RELAY CONTROL CHART

CONTROL	CODE	DEVICE	FUNCTION	CONNECTOR

* SEE ASSEMBLY INSTRUCTIONS

AUG 5 2015

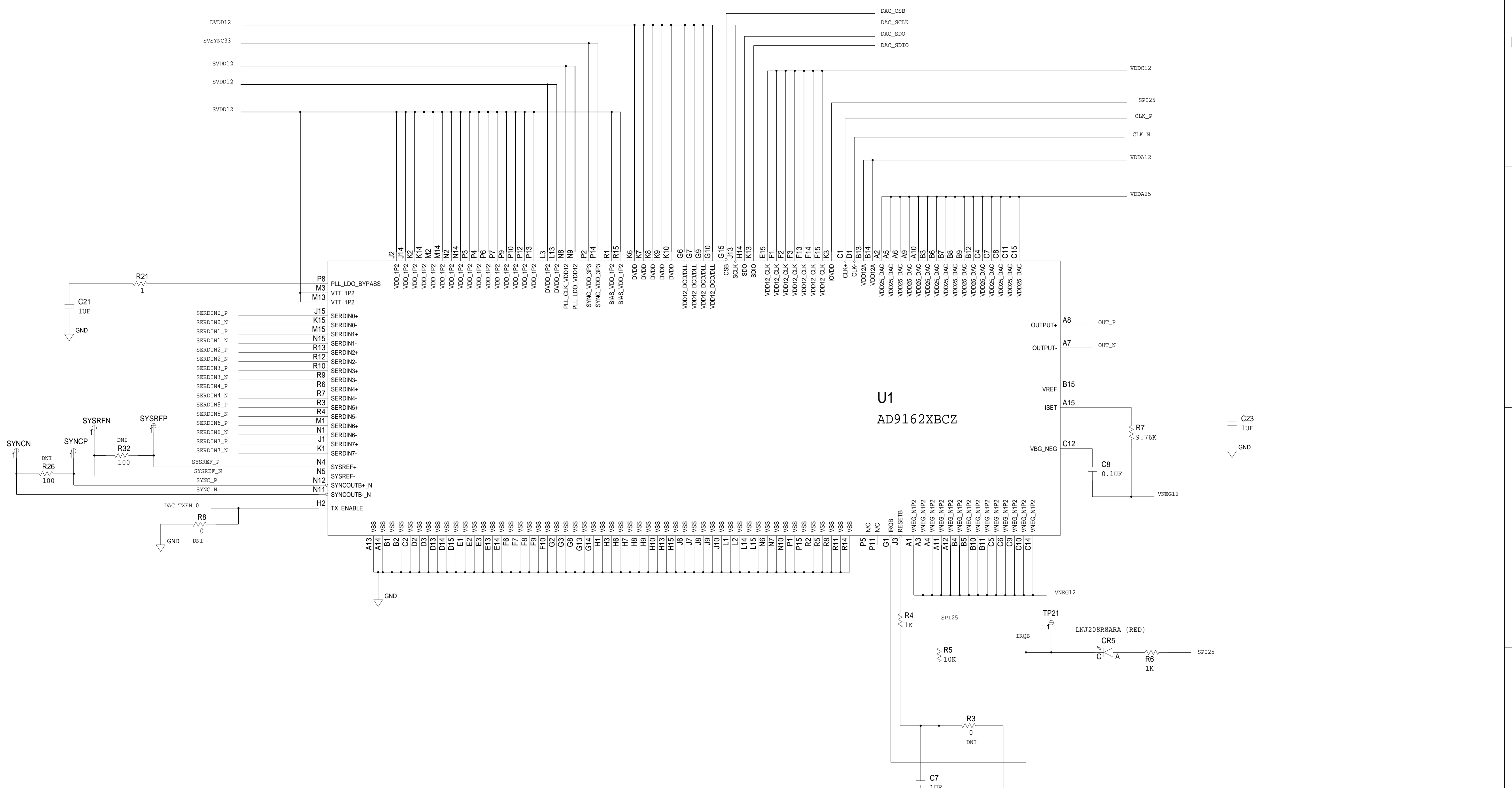
P.O SPEC.	BK/BD SPEC.	SOCKET OEM	OEM PART#	HANDLER

TEMPLATE ENGINEER P. ALONGI	DATE	<h2>SCHEMATIC</h2>		
HARDWARE SERVICES -				
HARDWARE SYSTEMS -				
TEST ENGINEER -				
COMPONENT ENGINEER -				
TEST PROCESS -		.5 MM PITCH DAC WITH MINI CIRCUIT BALUN		
HARDWARE RELEASE -		<PRODUCT>		
		<PRODUCT_1>		
DESIGNER -		<DRAWING_TITLE1>		
		<DRAWING_TITLE2>		
PTD ENGINEER <PTD_ENGINEER>		<DRAWING_TITLE3>		
CHECKER -		<DRAWING_TITLE4>		
		<DRAWING_TITLE5>		
MASTER PROJECT TEMPLATE <DRAWING_TITLE6>		TESTER TEMPLATE -	DRAWING NO. HSC 15016	REV. B
<small>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</small>			SIZE D	SCALE <SCALE>-
TOLERANCES DECIMALS X.XX +0.010 X.XXX +0.005 FRACTIONS +1/32 ANGLES +2			CODE ID NO. SHEET 1	OF 8

8 7 6 5 4 3 2 1

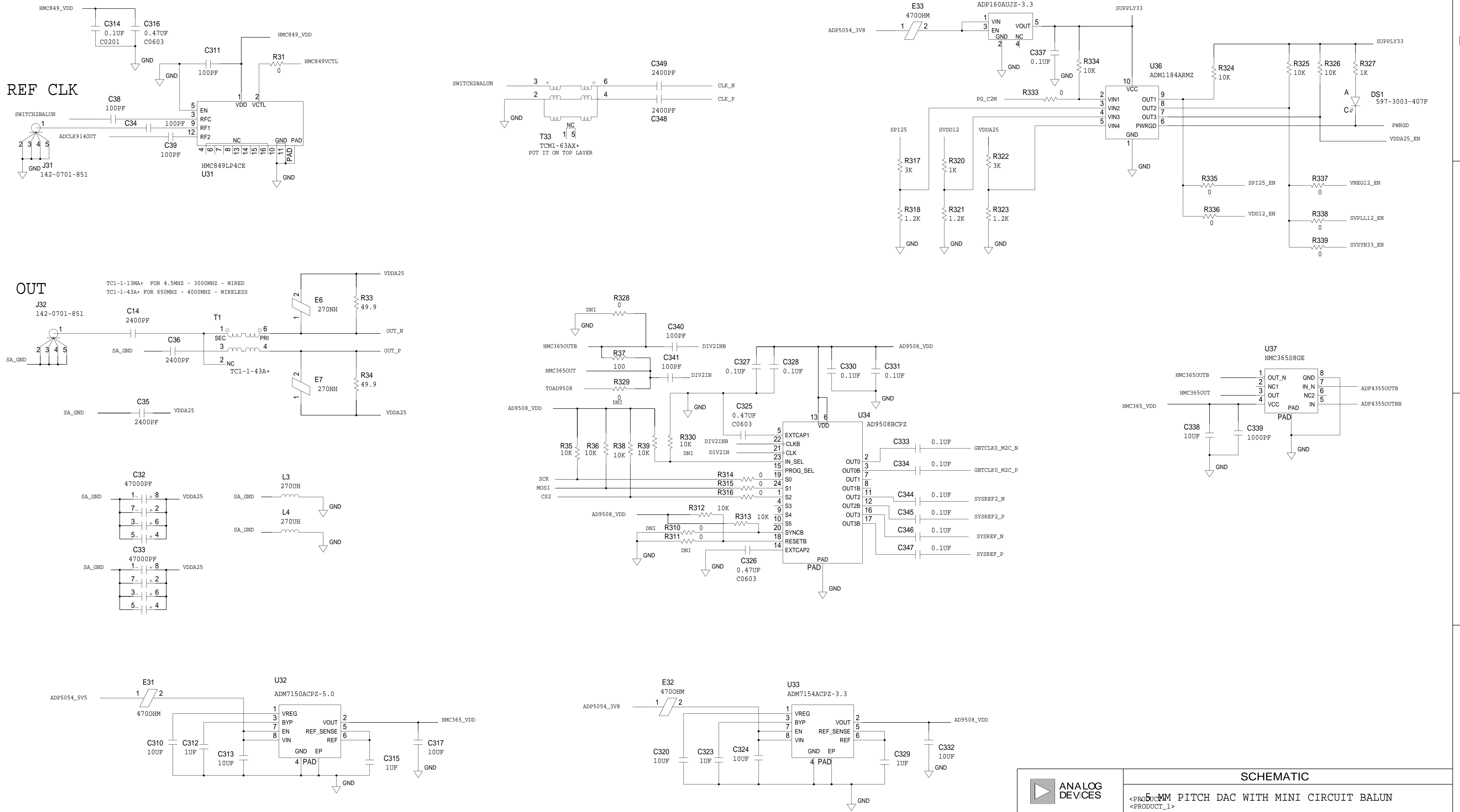
AD9162

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DAC OUTPUT & CLK & POWER SEQUENCE

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

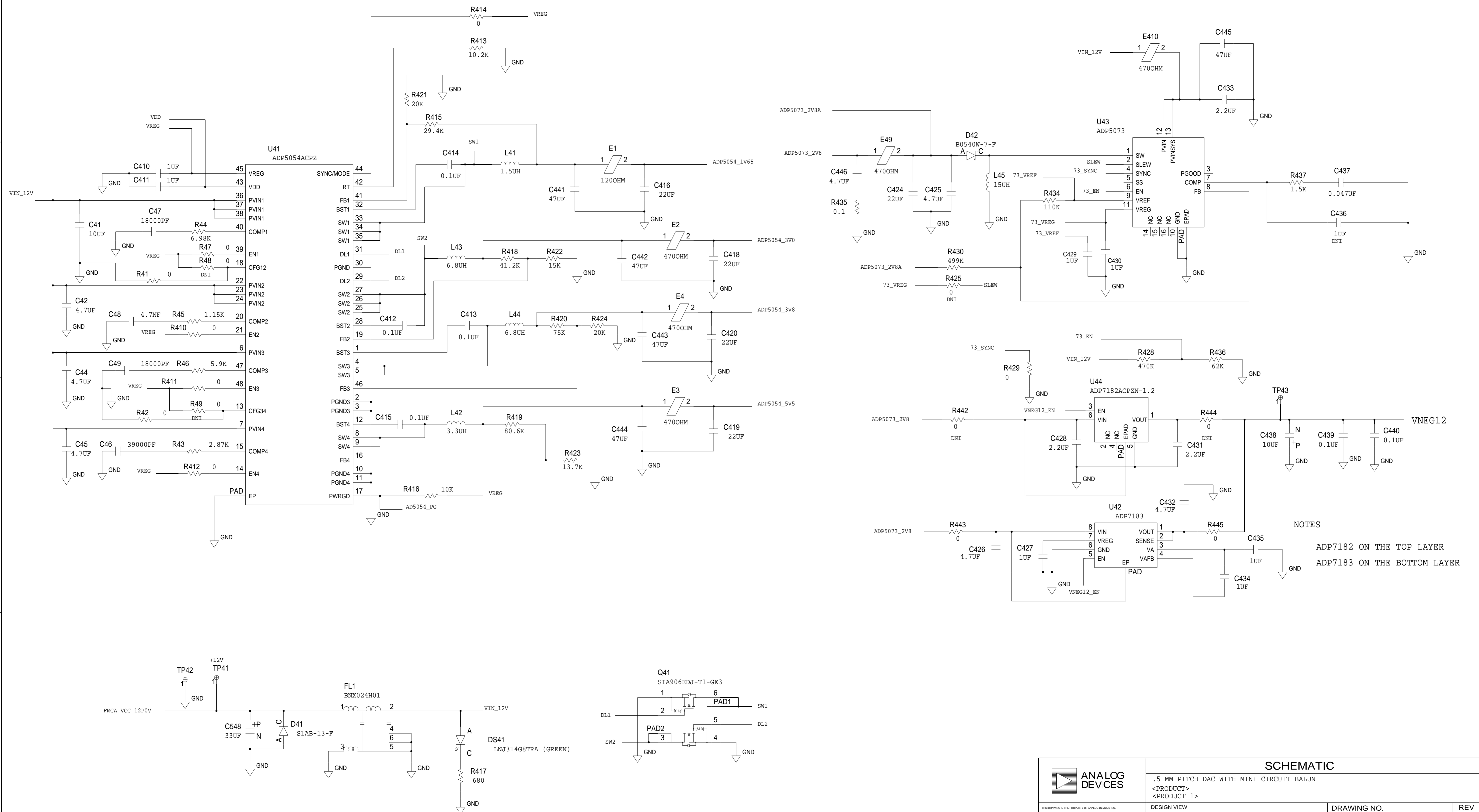


	SCHEMATIC			
	5MM PITCH DAC WITH MINI CIRCUIT BALUN			
	DESIGN VIEW <DESIGN_VIEW>		DRAWING NO. HSC 15016	REV B
	PTD ENGINEER <PTD_ENGINEER>		SIZE D	SCALE <SCALE>

THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF ANALOG DEVICES. THE EQUIPMENT SHOWN HEREIN MAY BE PROTECTED BY PATENTS OWNED OR CONTROLLED BY ANALOG DEVICES.

POWER - REGULATOR & NEG LDO

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



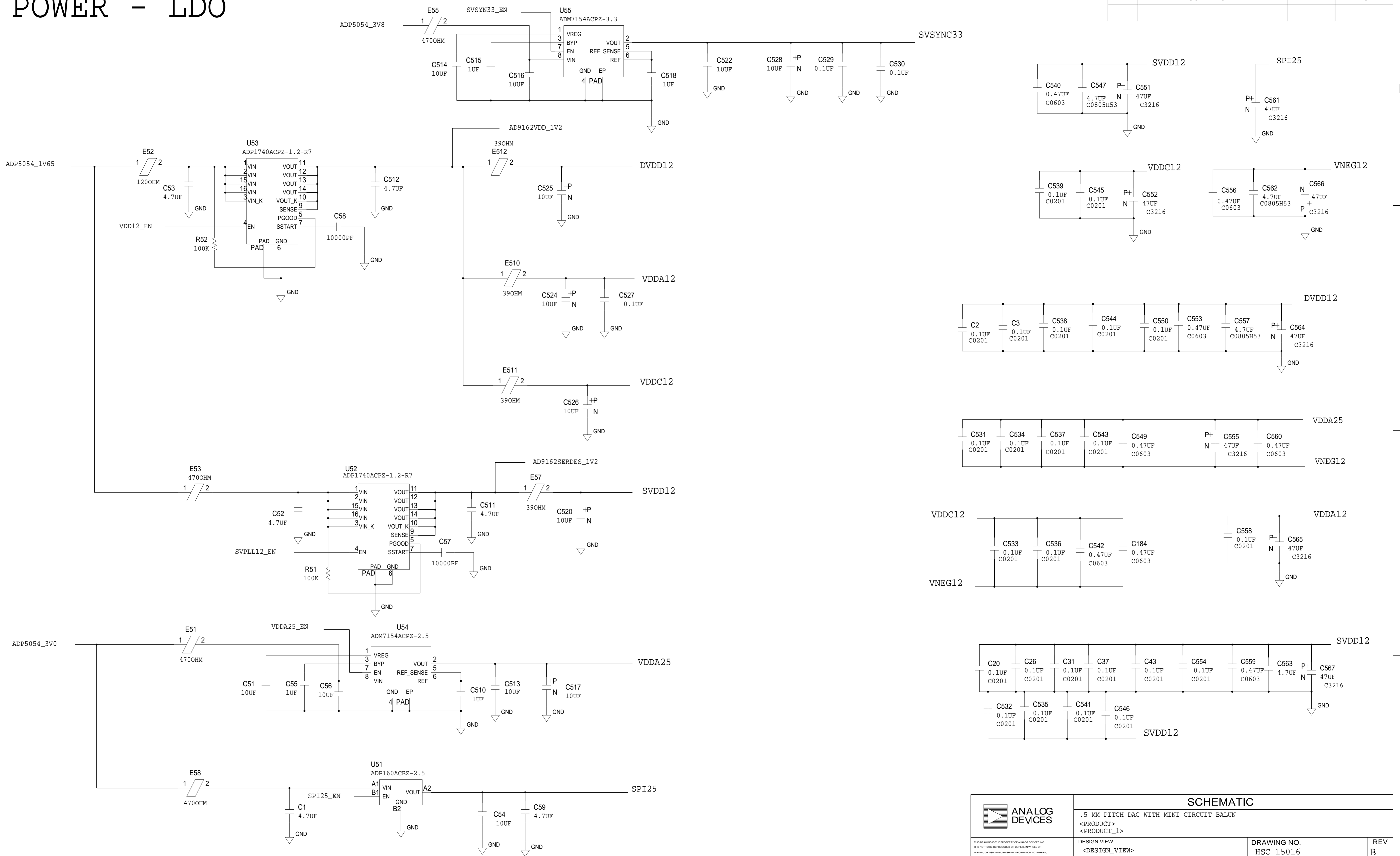
NOTES
 ADP7182 ON THE TOP LAYER
 ADP7183 ON THE BOTTOM LAYER

SCHEMATIC			
.5 MM PITCH DAC WITH MINI CIRCUIT BALUN			
<PRODUCT> <PRODUCT_1>			
DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. HSC 15016	REV B	
PTD ENGINEER <PTD_ENGINEER>	SIZE D	SCALE <SCALE>	SHEET 4 OF 8

ANALOG DEVICES
THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. IT IS NOT TO BE REPRODUCED OR COPIED, IN WHOLE OR IN PART, OR USED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF ANALOG DEVICES. THE EQUIPMENT SHOWN HEREIN MAY BE PROTECTED BY PATENTS OWNED OR CONTROLLED BY ANALOG DEVICES.

POWER - LDO

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



SCHEMATIC			
.5 MM PITCH DAC WITH MINI CIRCUIT BALUN			
<PRODUCT> <PRODUCT_1>			
DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. HSC 15016	REV B	
PTD ENGINEER <PTD_ENGINEER>	SIZE D	SCALE <SCALE>	SHEET 5 OF 8

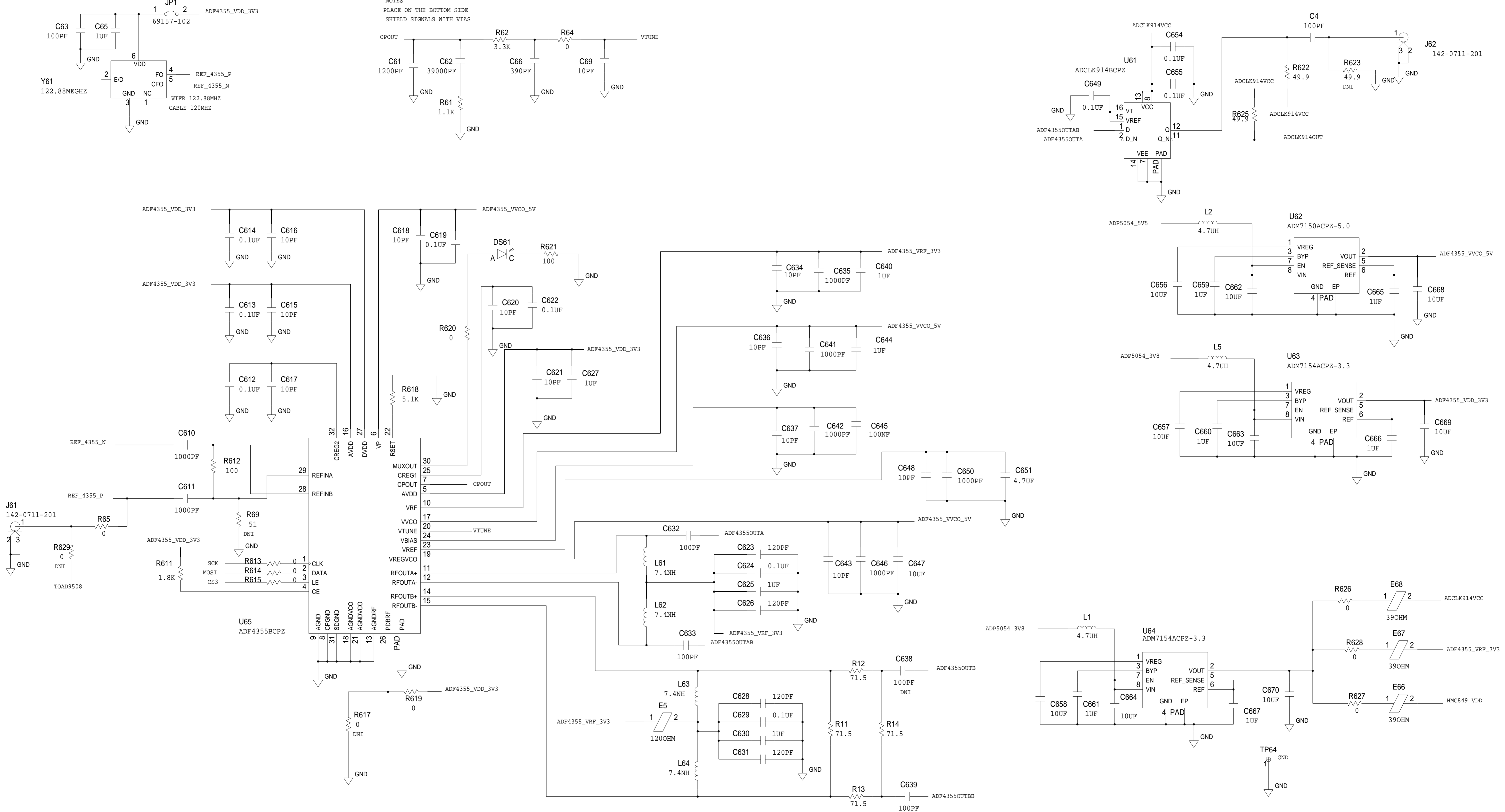
ANALOG DEVICES

THIS DRAWING IS THE PROPERTY OF ANALOG DEVICES INC. IT IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART, OR USED IN ANY MANNER THAT IS DETRIMENTAL TO THE INTERESTS OF ANALOG DEVICES. THE EQUIPMENT SHOWN HEREIN MAY BE PROTECTED BY PATENTS OWNED OR CONTROLLED BY ANALOG DEVICES.

ONBOARD CLK - ADF4355 & CLK BUFFER

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES
PLACE ON THE BOTTOM SIDE
SHIELD SIGNALS WITH VIAS

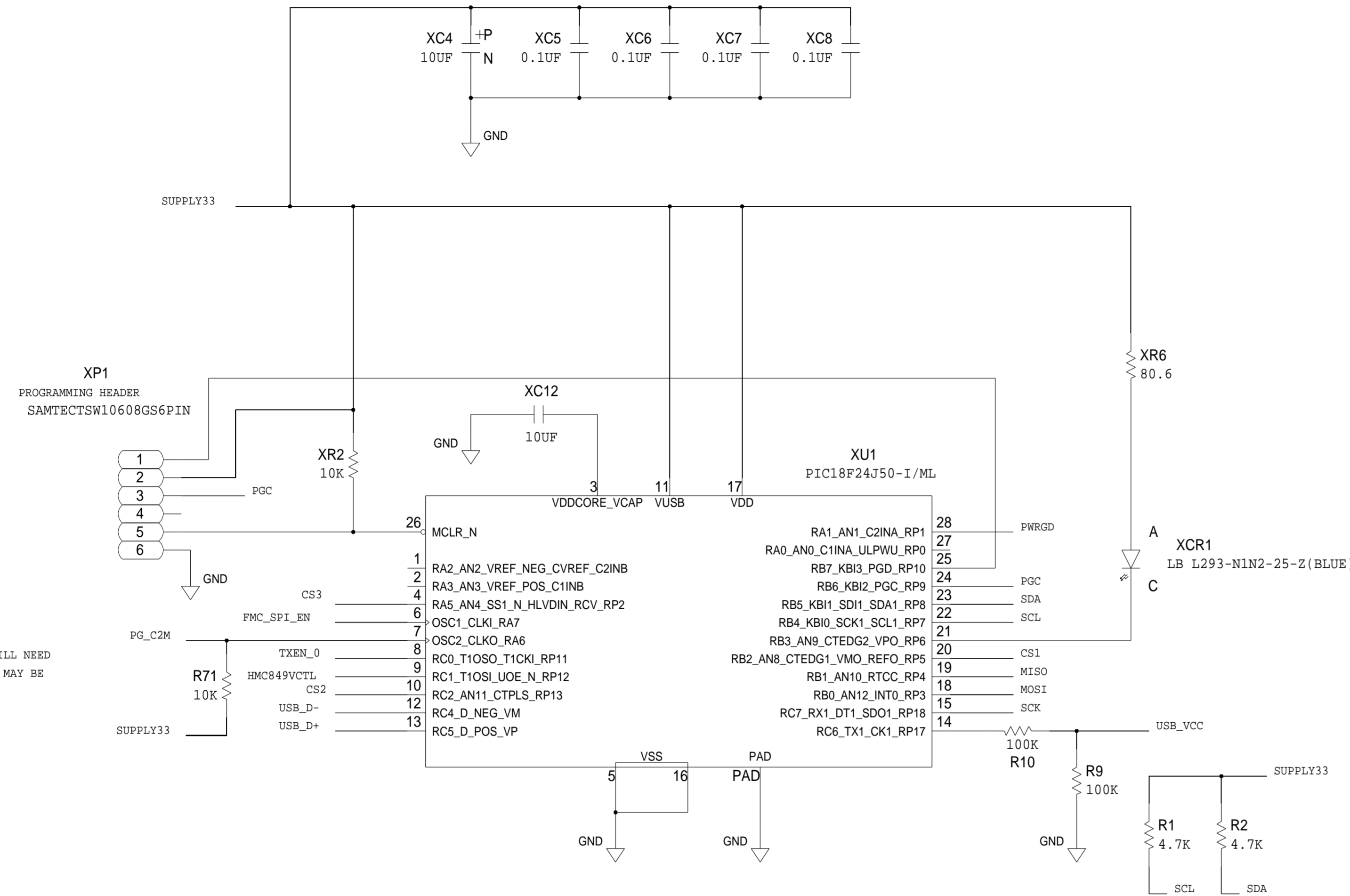


LO (ADF4355)

	SCHEMATIC		
	.5 MM PITCH DAC WITH MINI CIRCUIT BALUN		
	<PRODUCT> <PRODUCT_1>		
	DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. HSC 15016	REV B
PTD ENGINEER <PTD_ENGINEER>	SIZE D	SCALE <SCALE>	
		SHEET 6 OF 8	

GPIO & MISC

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

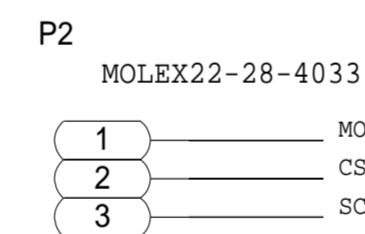
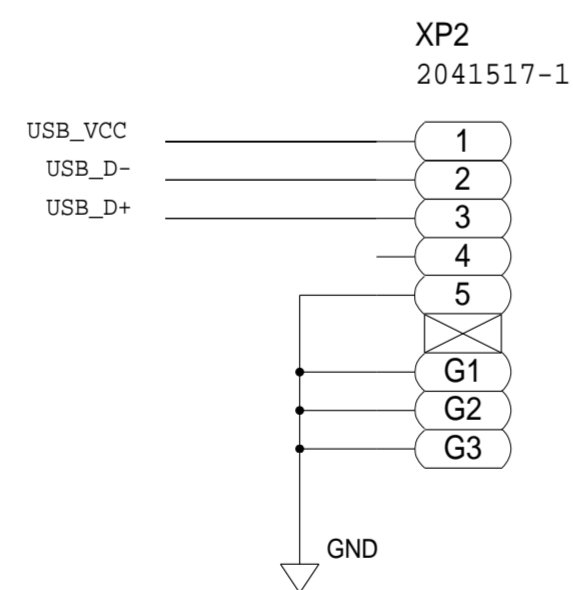


IMPLEMENTATION NOTE: FMC_SPI_EN WILL NEED TO BE SAMPLED AS ANALOG, SINCE IT MAY BE AS LOW AS 1.2V LOGIC HIGH.

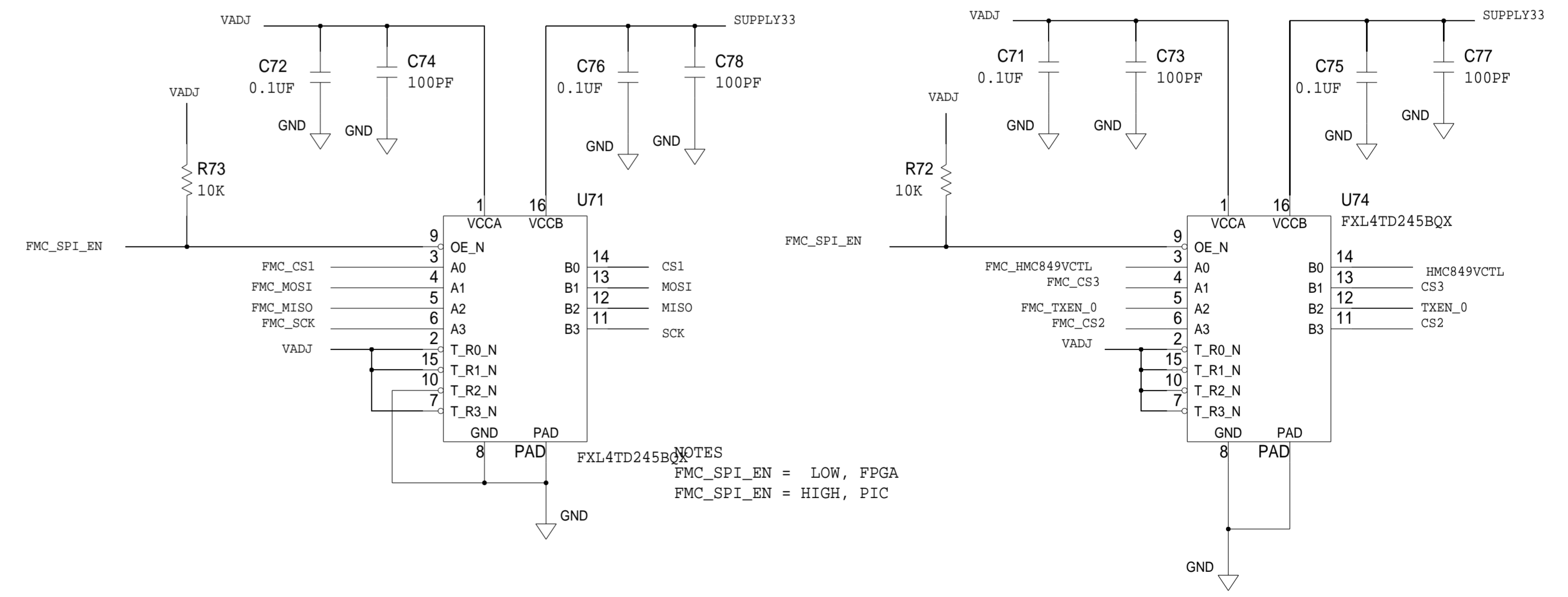
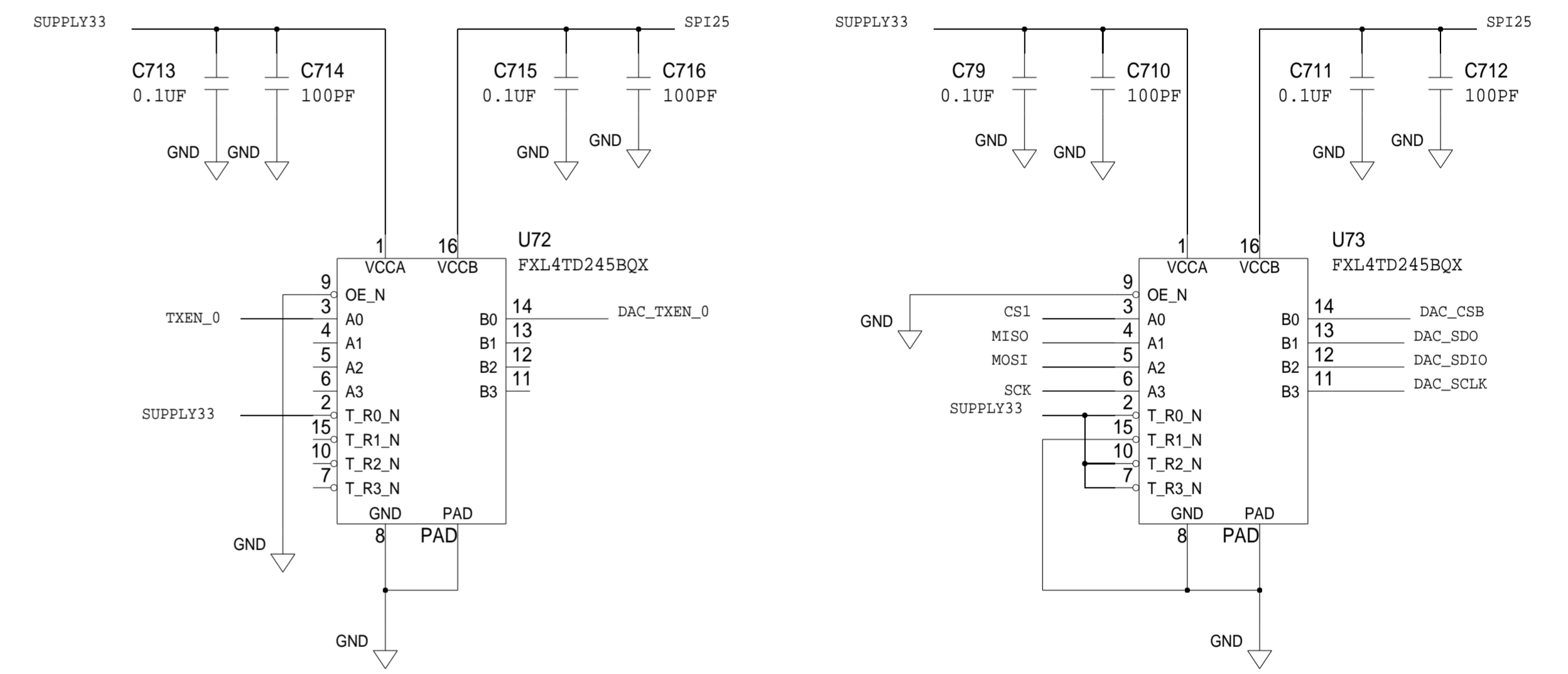
NOTE:

IF USB CABLE IS PLUGGED IN PIC IS THE SOURCE OF SPI BUS AND TXEN SIGNALS

IF USB IS UNPLUGGED FMC INTERFACE IS THE SOURCE OF SPI BUS AND TXEN SIGNAL.



CONNECTIONS WILL PASS RIGHT THROUGH THE CONNECTOR

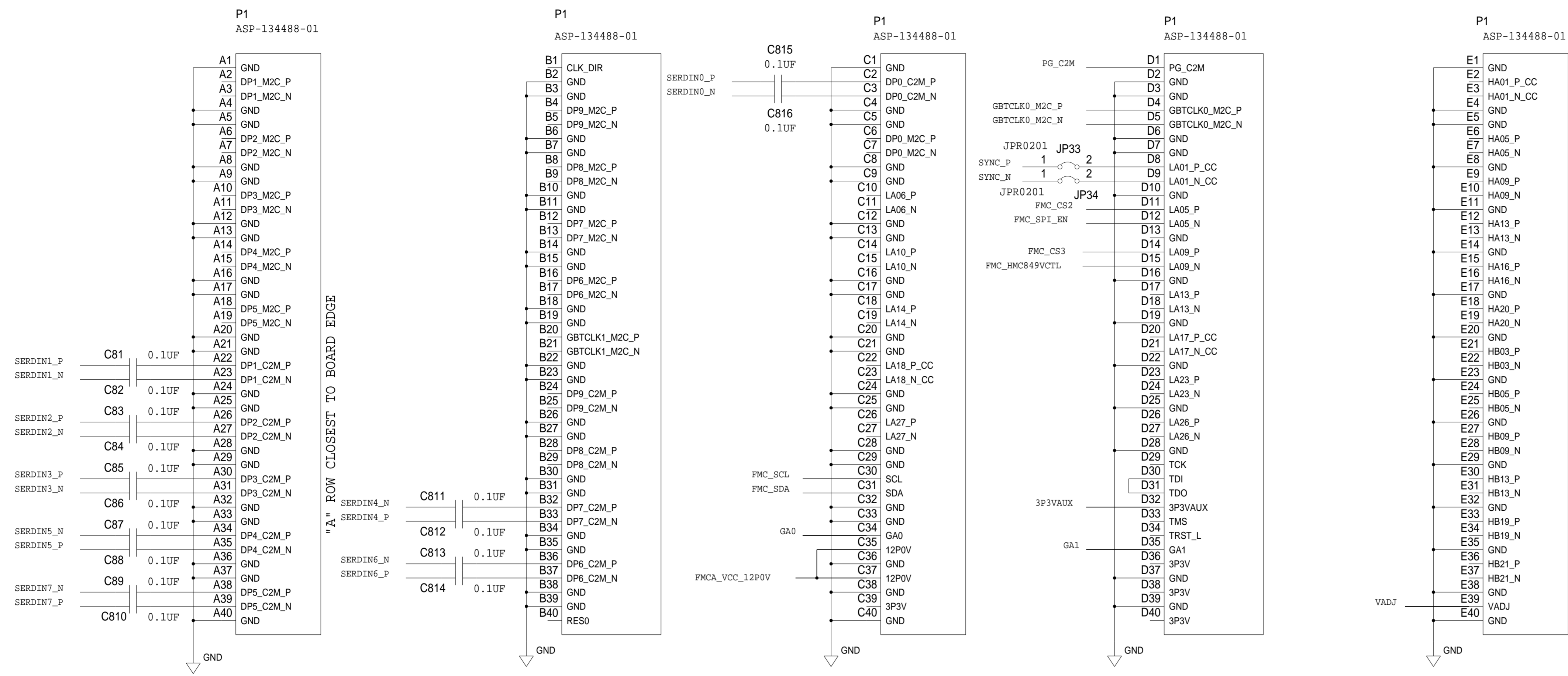


NOTES
 FMC_SPI_EN = LOW, FPGA
 FMC_SPI_EN = HIGH, PIC

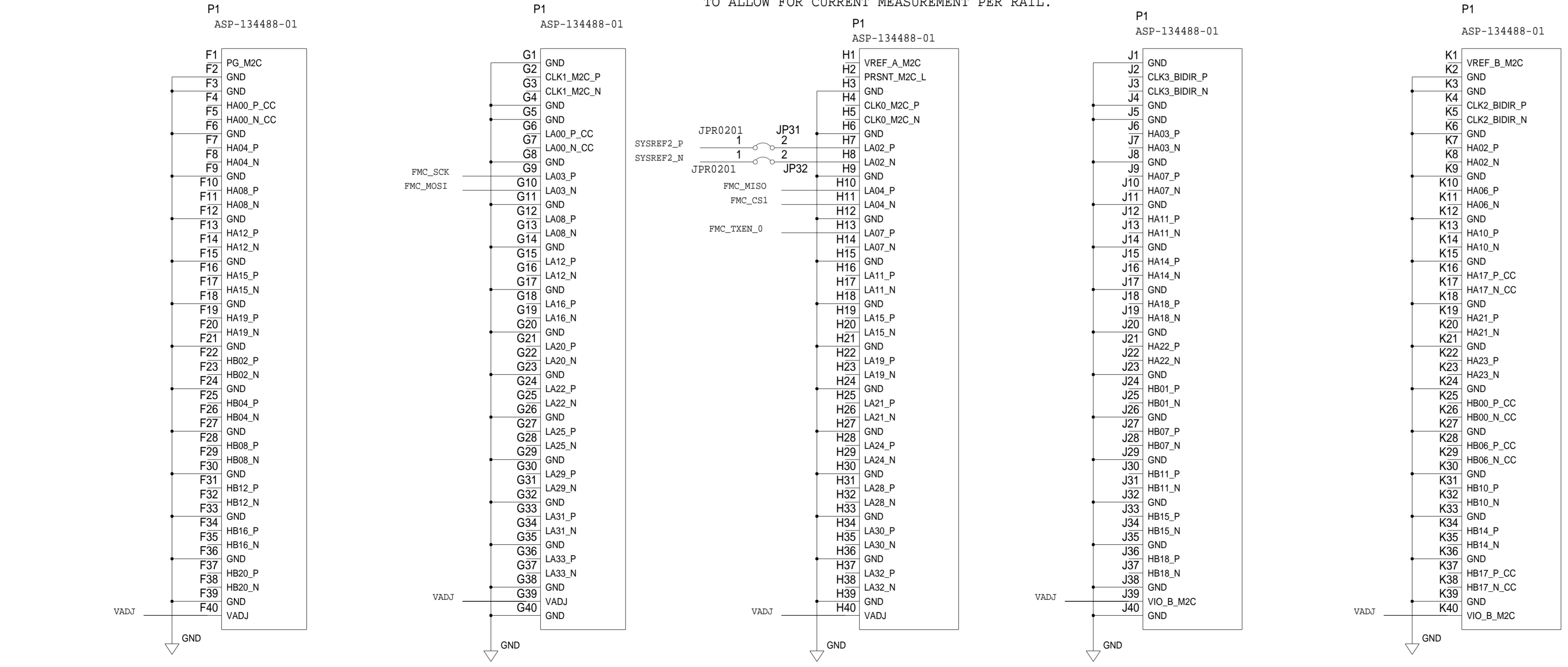
	SCHEMATIC		
	.5 MM PITCH DAC WITH MINI CIRCUIT BALUN		
	<PRODUCT> <PRODUCT_1>		
	DESIGN VIEW <DESIGN_VIEW>	DRAWING NO. HSC 15016	REV B
PTD ENGINEER <PTD_ENGINEER>	SIZE D	SCALE <SCALE>	
		SHEET 7 OF 8	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

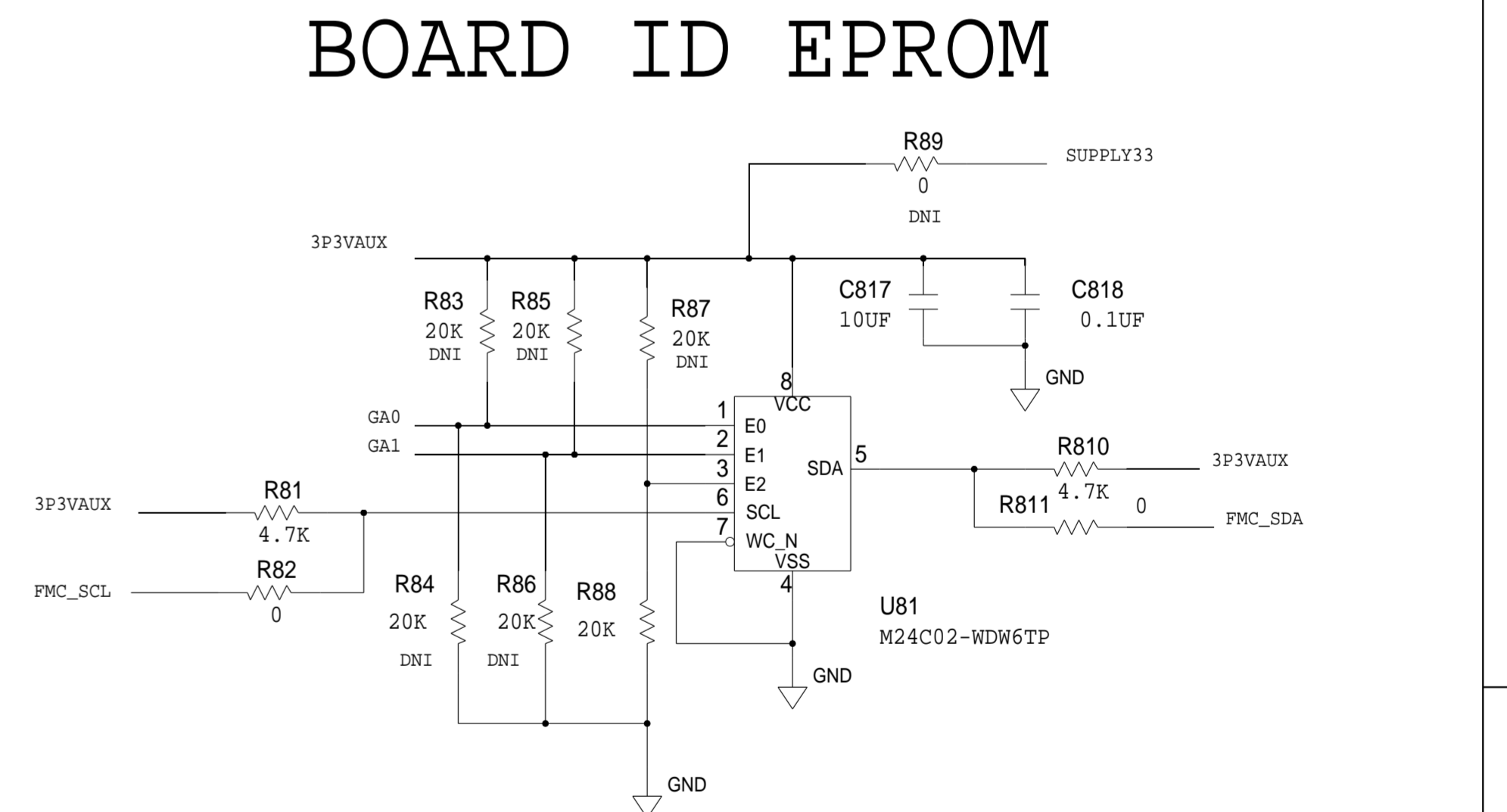
FMC - CONNECTIONS



ON 3P3V, 12P0V, AND VADJ, HAVE PIN-HEADER JUMPER BETWEEN FMC PINS AND REST OF BOARD, TO ALLOW FOR CURRENT MEASUREMENT PER RAIL.



VIO_B_M2C PINS SHOULD HAVE WIDE ETCH CONNECTION TO VADJ PINS



SCHEMATIC			
.5 MM PITCH DAC WITH MINI CIRCUIT BALUN			
<PRODUCT>			
<PRODUCT_1>			
DESIGN VIEW	DRAWING NO.		REV
<DESIGN_VIEW>	HSC 15016		B
PTD ENGINEER	SIZE	SCALE	SHEET 8 OF 8
<PTD_ENGINEER>	D	<SCALE>	