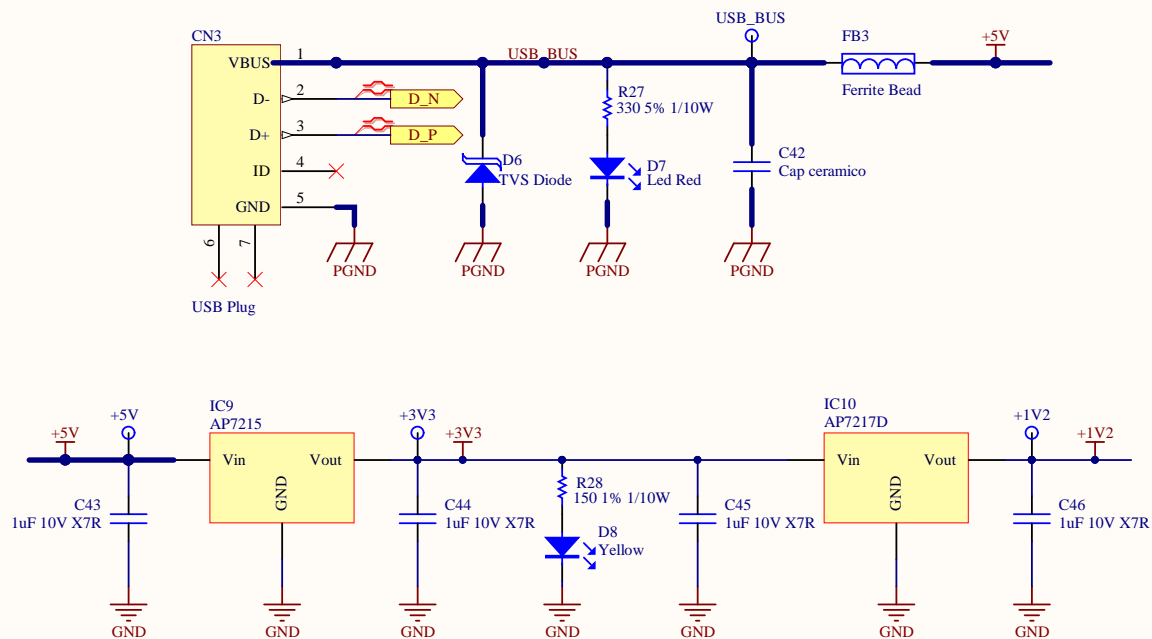


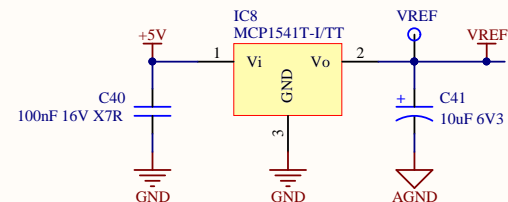
Title		
MercurialSDR - Block Diagram		
Size	Number	Revision
A4		Rev2.0
Date:	7/12/2020	Sheet 1 of 6
File:	C:\Users\...\MercurialSDR_BLK.SchDoc	Drawn By: Andres Hojnadel

# Power Stage

## USB to +3V3 and +1V2



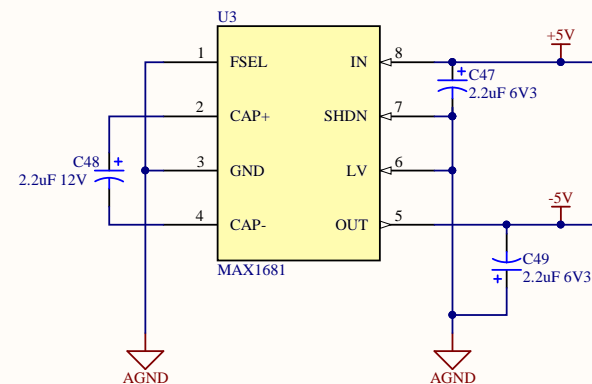
## Reference Voltage



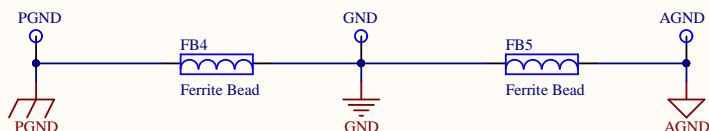
This is a precision voltage reference for DAC (IC1).  
Them must be close.

## Inverter Voltage

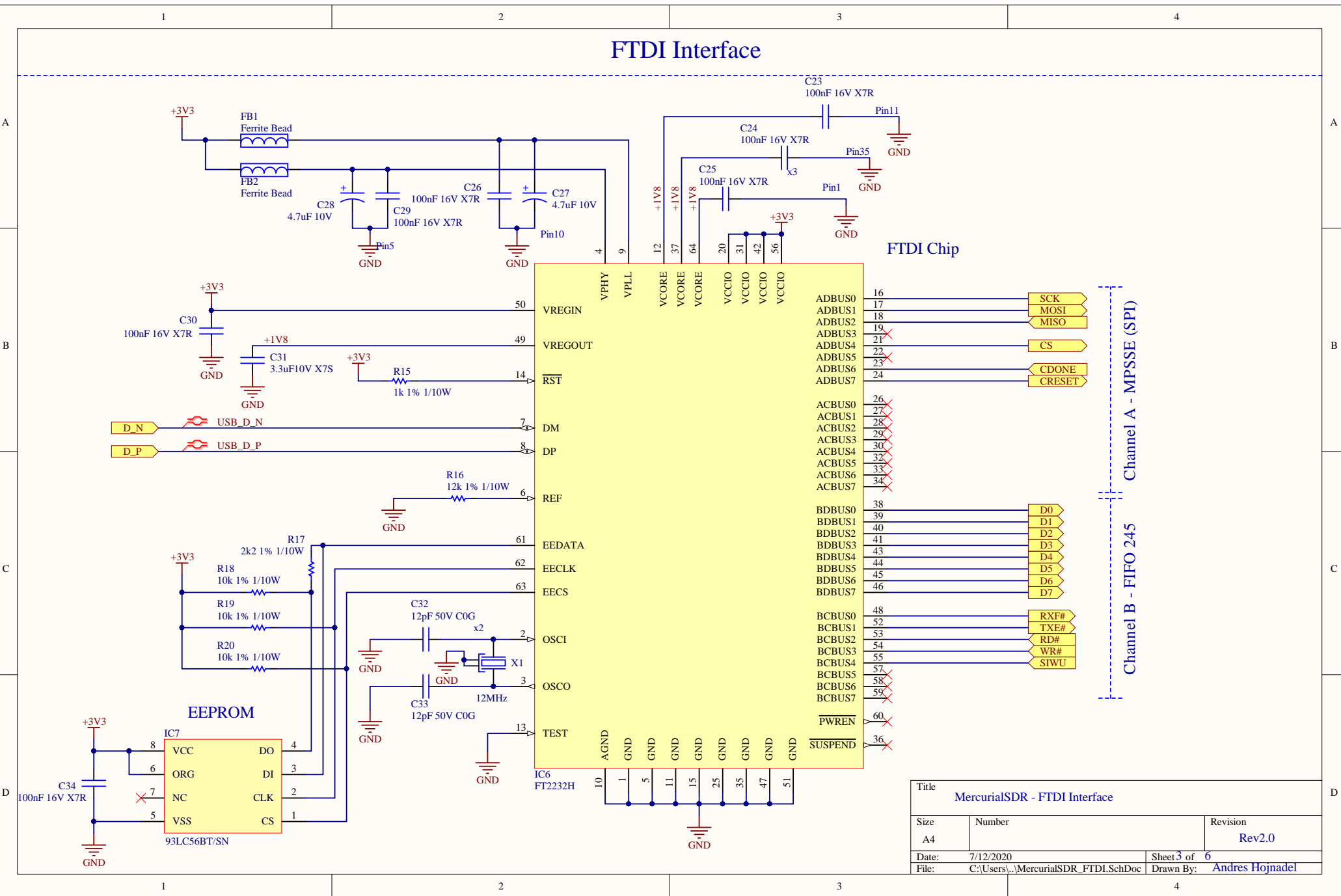
Es muy importante el ESR de los capacitores para el ripple



## Ground Connections



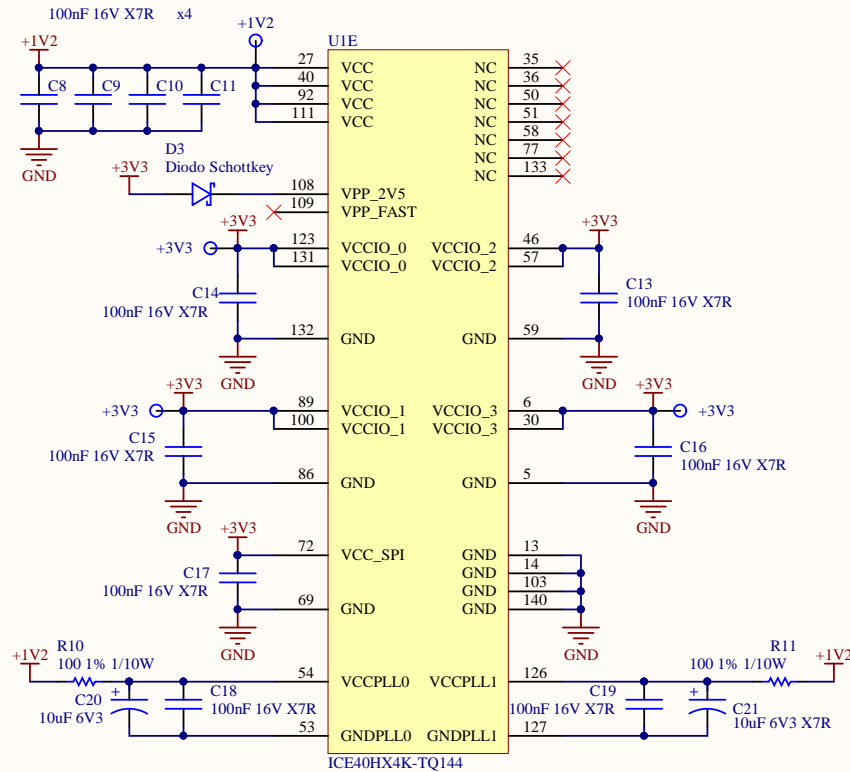
Title MercurialSDR - Power Stage		
Size A4	Number	Revision Rev2.0
Date: 7/12/2020	Sheet 2 of 6	
File: C:\Users\...\MercurialSDR_PWR.SchDoc	Drawn By: Andres Hojnadel	



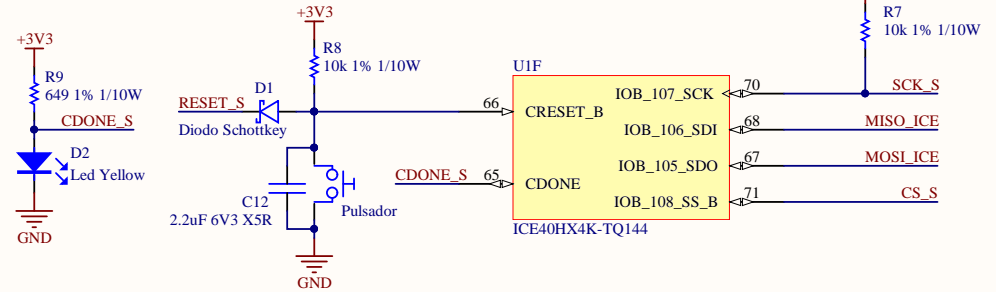
Title <b>MercurialSDR - FTDI Interface</b>			
Size A4	Number		Revision <b>Rev2.0</b>
Date:	7/12/2020	Sheet 3 of 6	
File:	C:\Users\A\MercurialSDR_FTDI\SchDoc	Drawn By:	<b>Andres Hoinadel</b>

# ICE Programming & Power

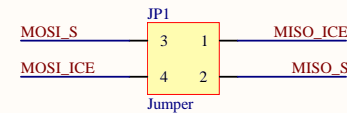
## iCE Power



## ICE SPI Programming Pins

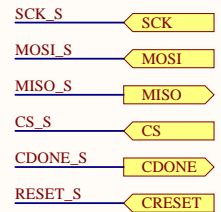


## ICE/Flash programming selection

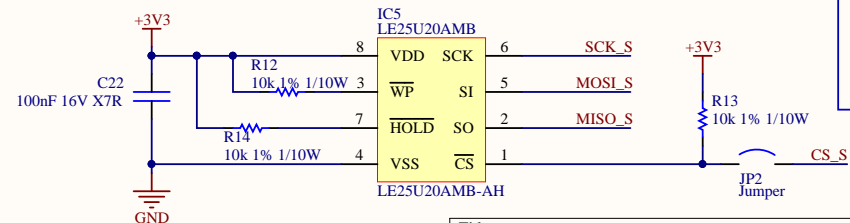


For programming ICE: shunt 1-3 & 2-4  
For programming Flash: shunt 1-2 & 3-4

## FTDI Ports



## Flash Memory

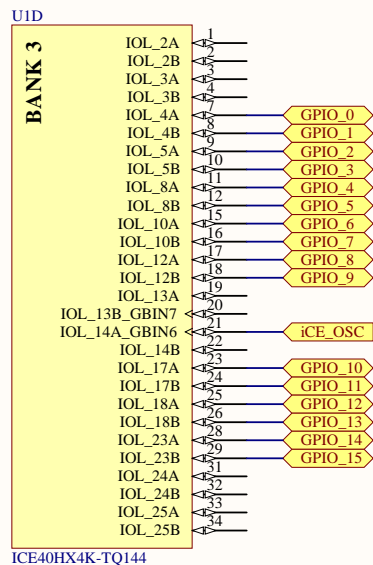
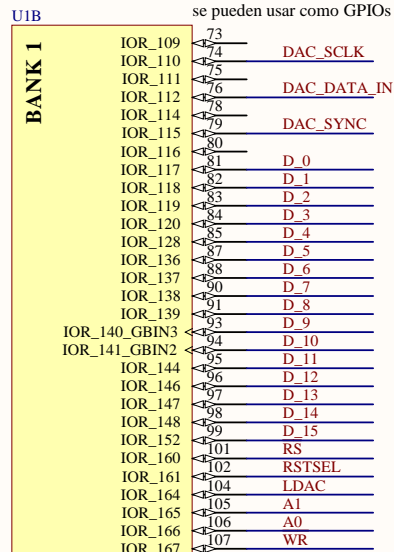


Remove JP2 only for programming ICE  
Shunt JP2 for Flash programming or normal operation

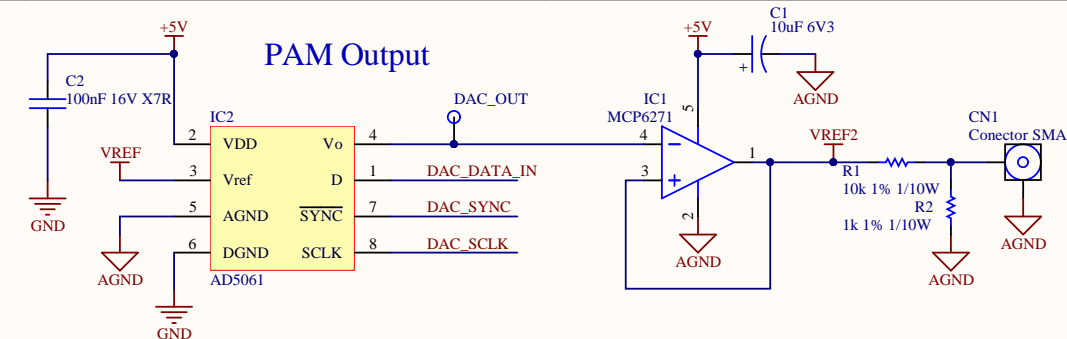
Title MercurialSDR - iCE Power & Program.		
Size A4	Number	Revision Rev2.0
Date: 7/12/2020	Sheet 4 of 6	
File: C:\Users\...\MercurialSDR_FPGA_P&P.Sch	Down By: Andres Hojnadel	

## FPGA Banks

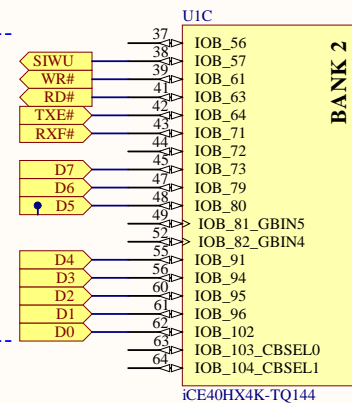
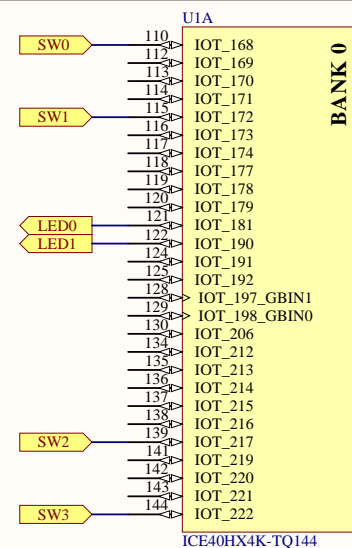
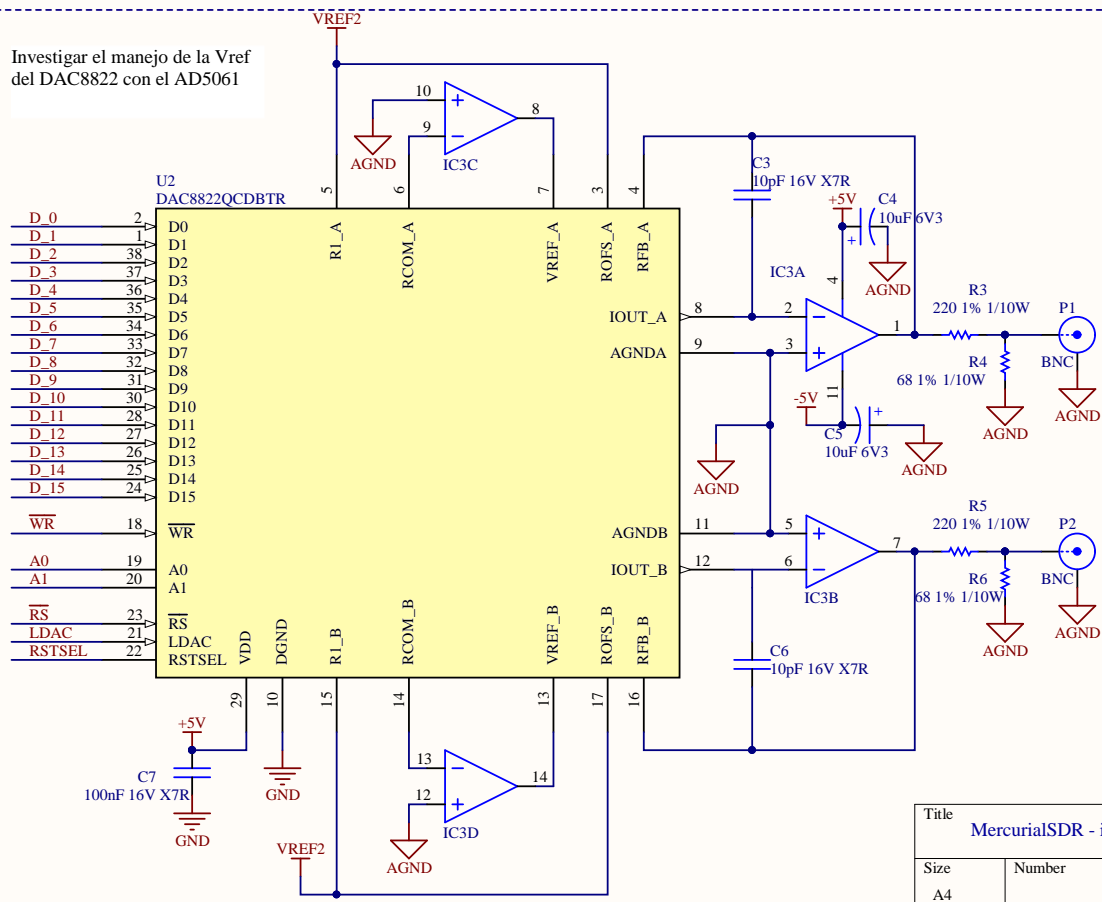
PIN93y94 son GlobalPins, pero se pueden usar como GPIOs



## PAM Output



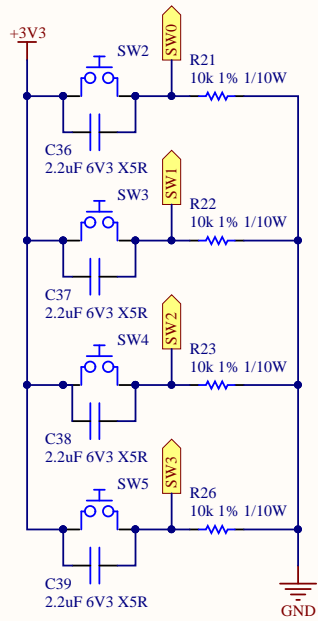
Investigar el manejo de la Vref del DAC8822 con el AD5061



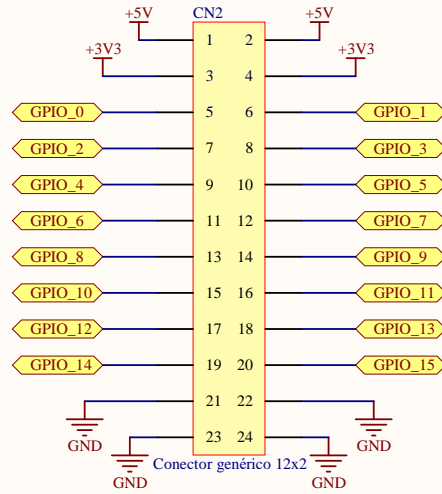
Title		
MercurialSDR - iCE Banks		
Size	Number	Revision
A4		Rev2.0
Date:	7/12/2020	Sheet 5 of 6
File:	C:\Users\...\MercurialSDR_FPGA_BNK_SchDown By: Andres Hojnadel	

# Miscellaneous

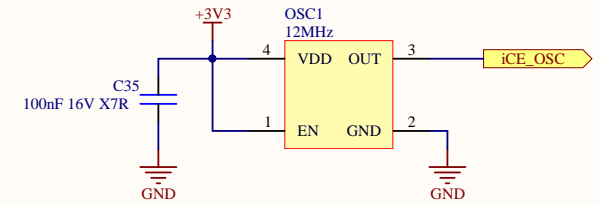
## Buttons



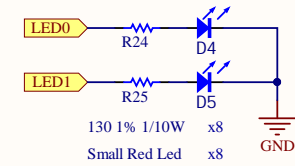
## GPIO Ports



## iCE Oscillator



## Leds



Title MercurialSDR - Miscellaneous		
Size A4	Number	Revision Rev2.0
Date: 7/12/2020	Sheet 6 of 6	
File: C:\Users\...\MercurialSDR_MISC.SchDoc	Drawn By: Andres Hojnadel	

