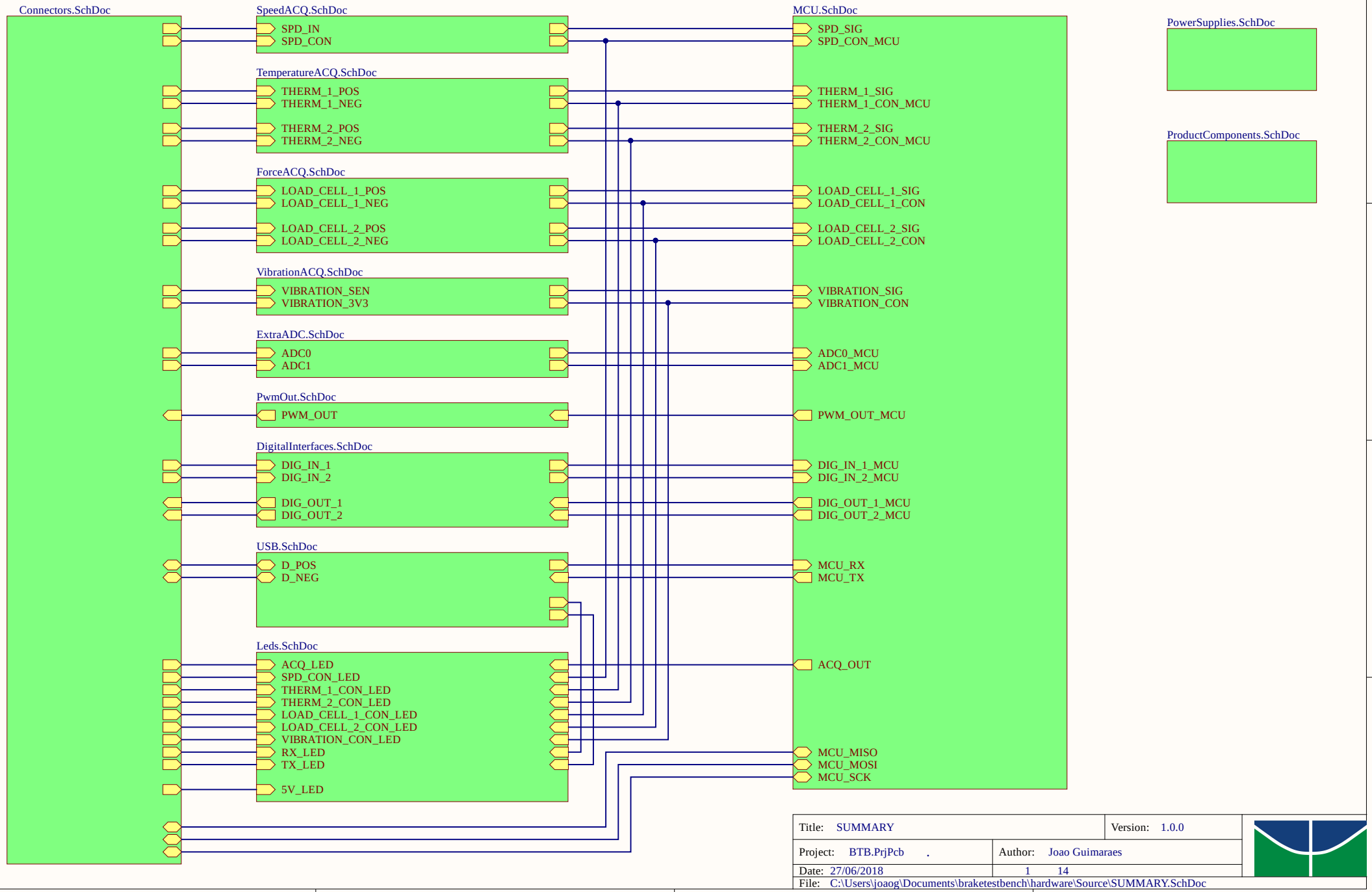
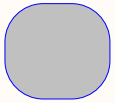


Title: SUMMARY		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	1 14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\SUMMARY.SchDoc		

Mechanical Parts

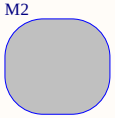
M1



BTB-PCB-1.0

Taxes

M2



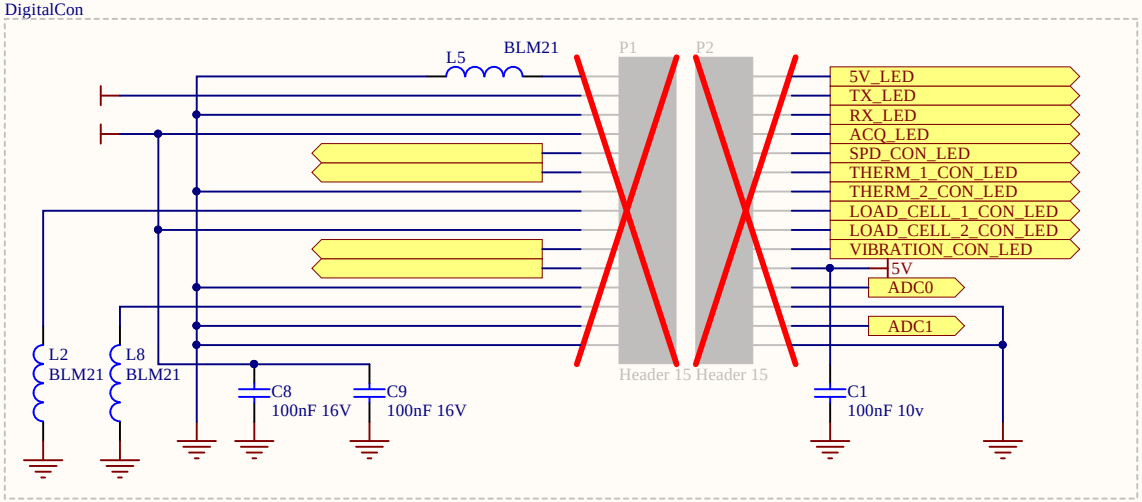
Importation Taxes Discrete

M3

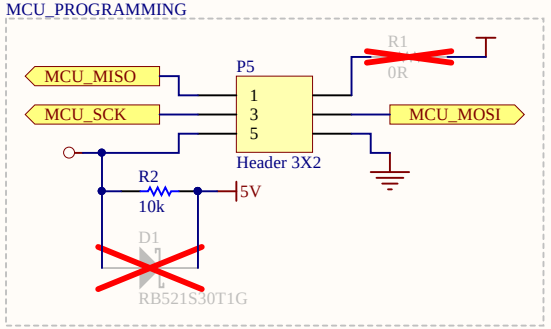
Importation Taxes PCB

Title: ProductComponents		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	1 14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\ProductComponents.SchDoc		

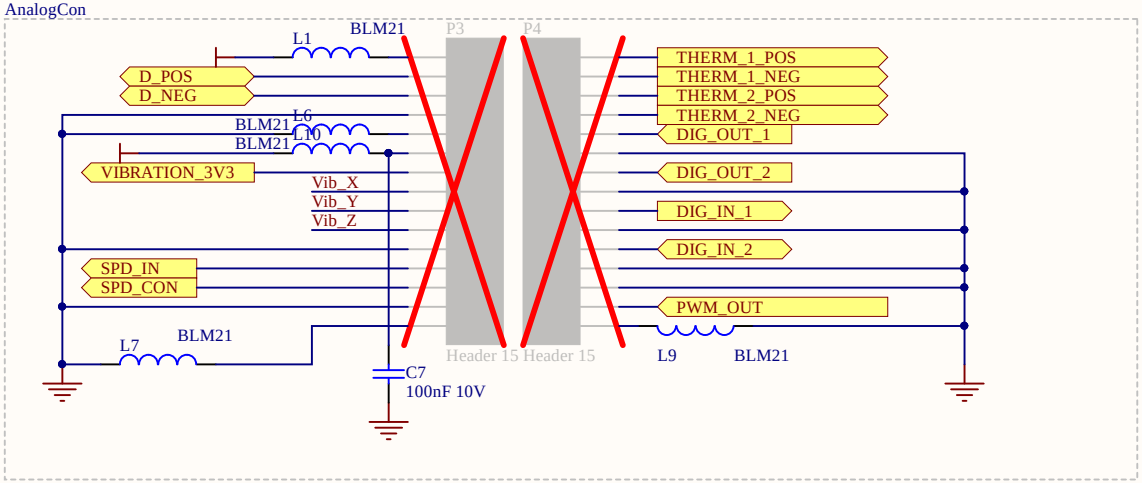
DigitalCon



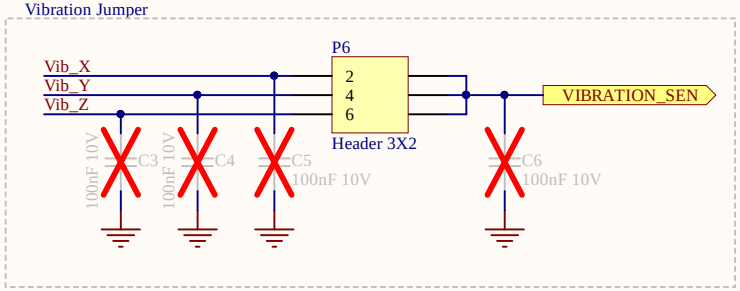
MCU_PROGRAMMING



AnalogCon

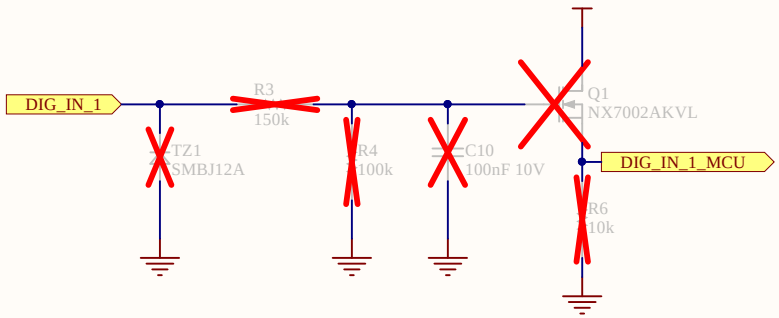


Vibration Jumper

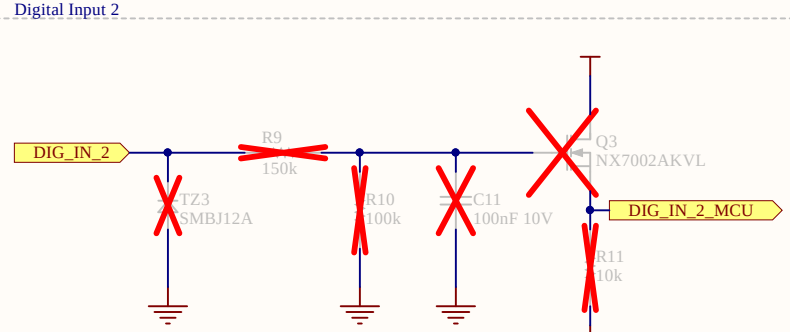


Title: Connectors		Version: 1.0.0	
Project: BTB.PrjPcb .		Author: Joao Guimaraes	
Date: 27/06/2018	14		
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\Connectors.SchDoc			

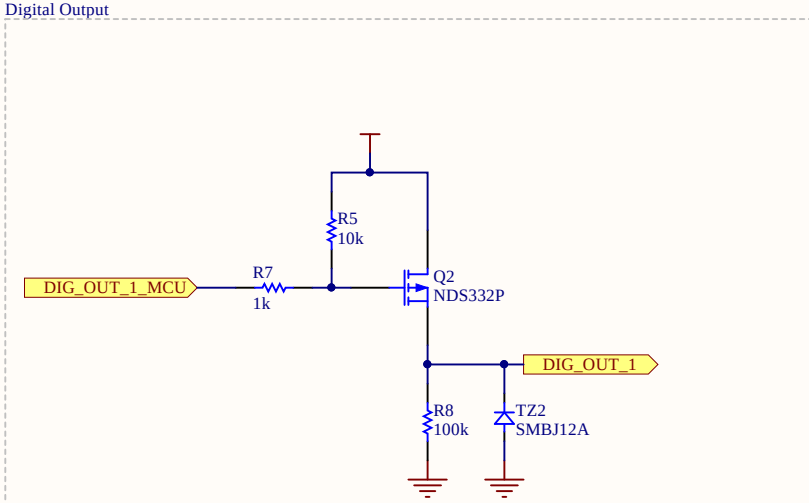
Digital Input 1



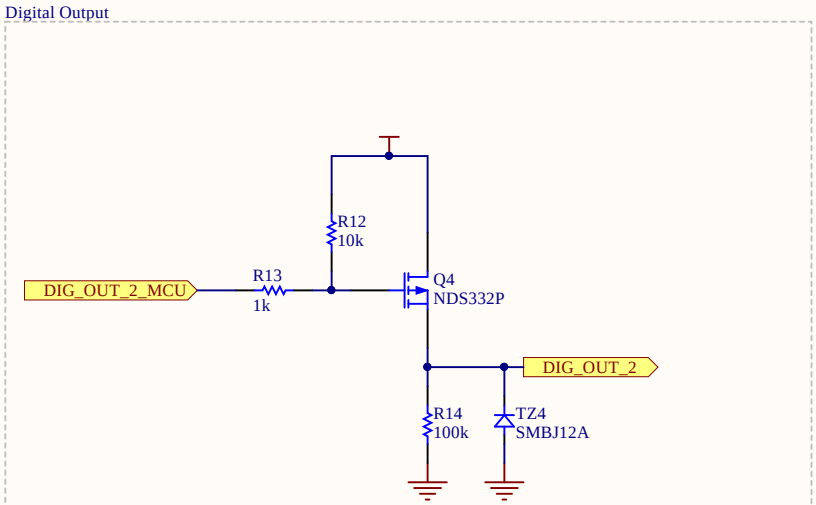
Digital Input 2



Digital Output

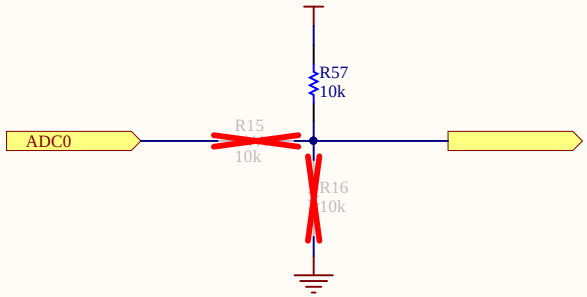


Digital Output

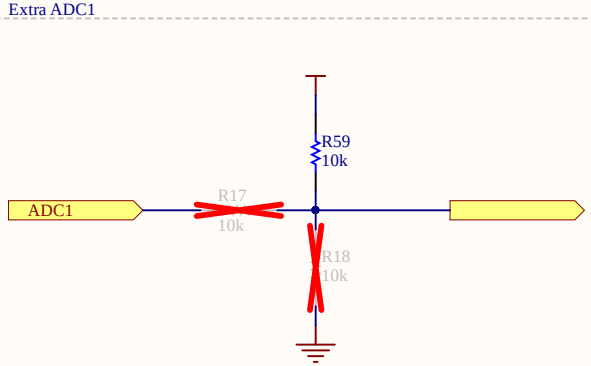


Title: DigitalInterfaces		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\DigitalInterfaces.SchDoc		

Extra ADC0

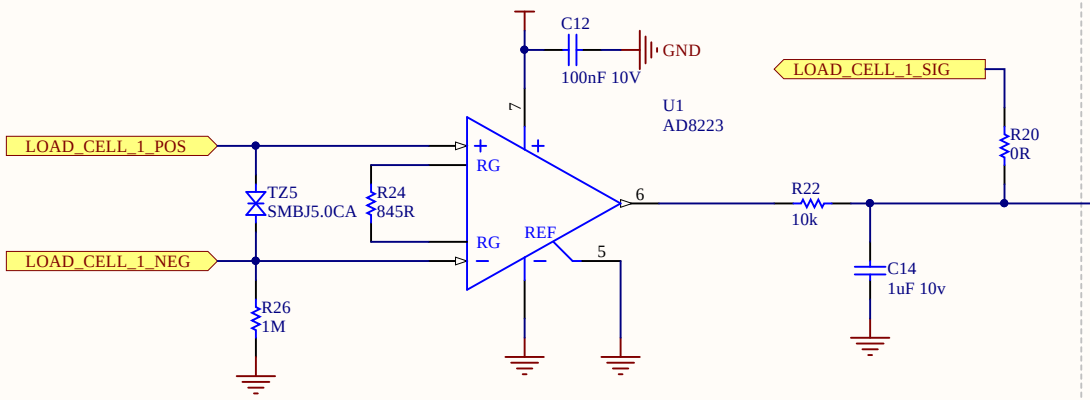


Extra ADC1

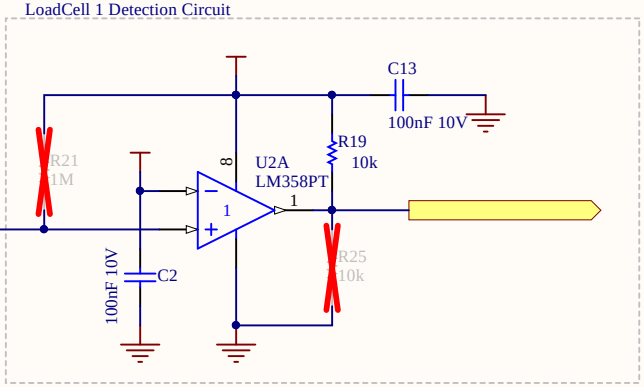


Title: ExtraADC		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\ExtraADC.SchDoc		

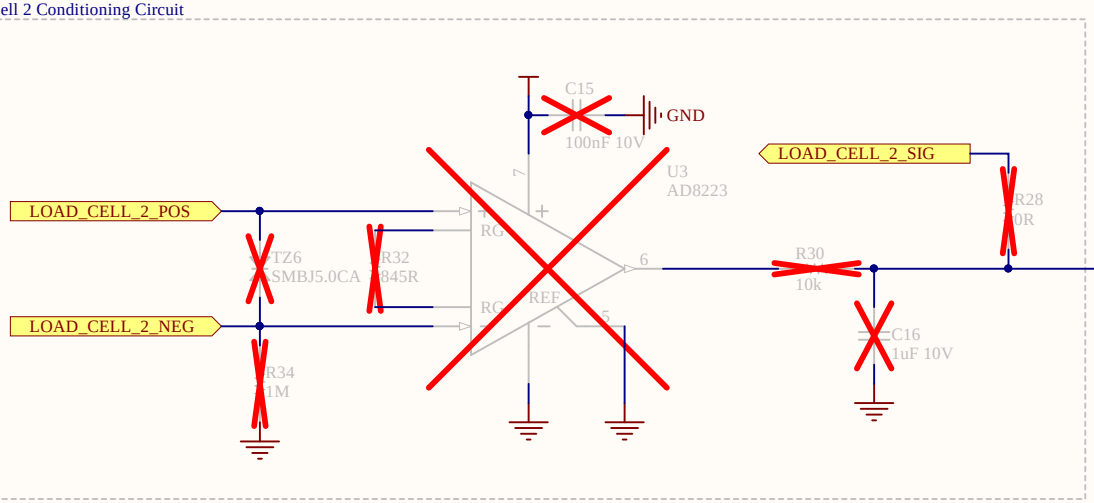
LoadCell 1 Conditioning Circuit



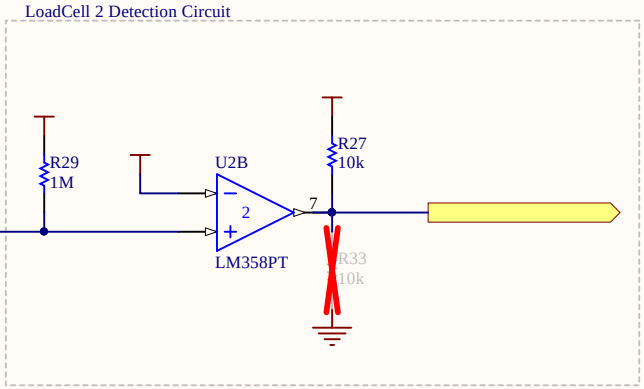
LoadCell 1 Detection Circuit



LoadCell 2 Conditioning Circuit

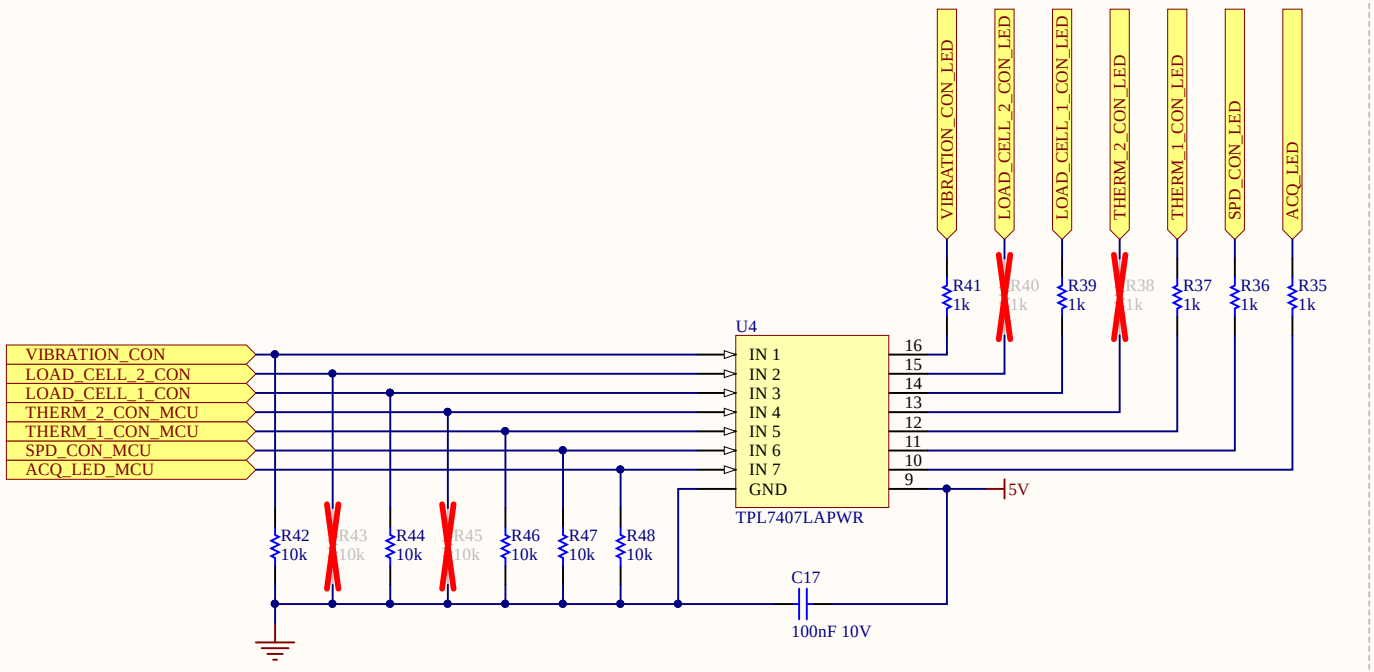


LoadCell 2 Detection Circuit

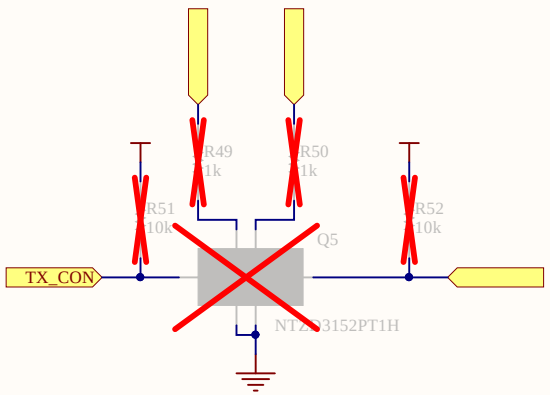


Title:	Force Acquisition Channel	Version:	1.0.0
Project:	BTB.PrjPcb .	Author:	Joao Guimarae
Date:	27/06/2018		14
File:	C:\Users\joaog\Documents\braketestbench\hardware\Source\ForceACQ.SchDoc		

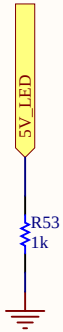
ConnectionLeds



Serial LEDS

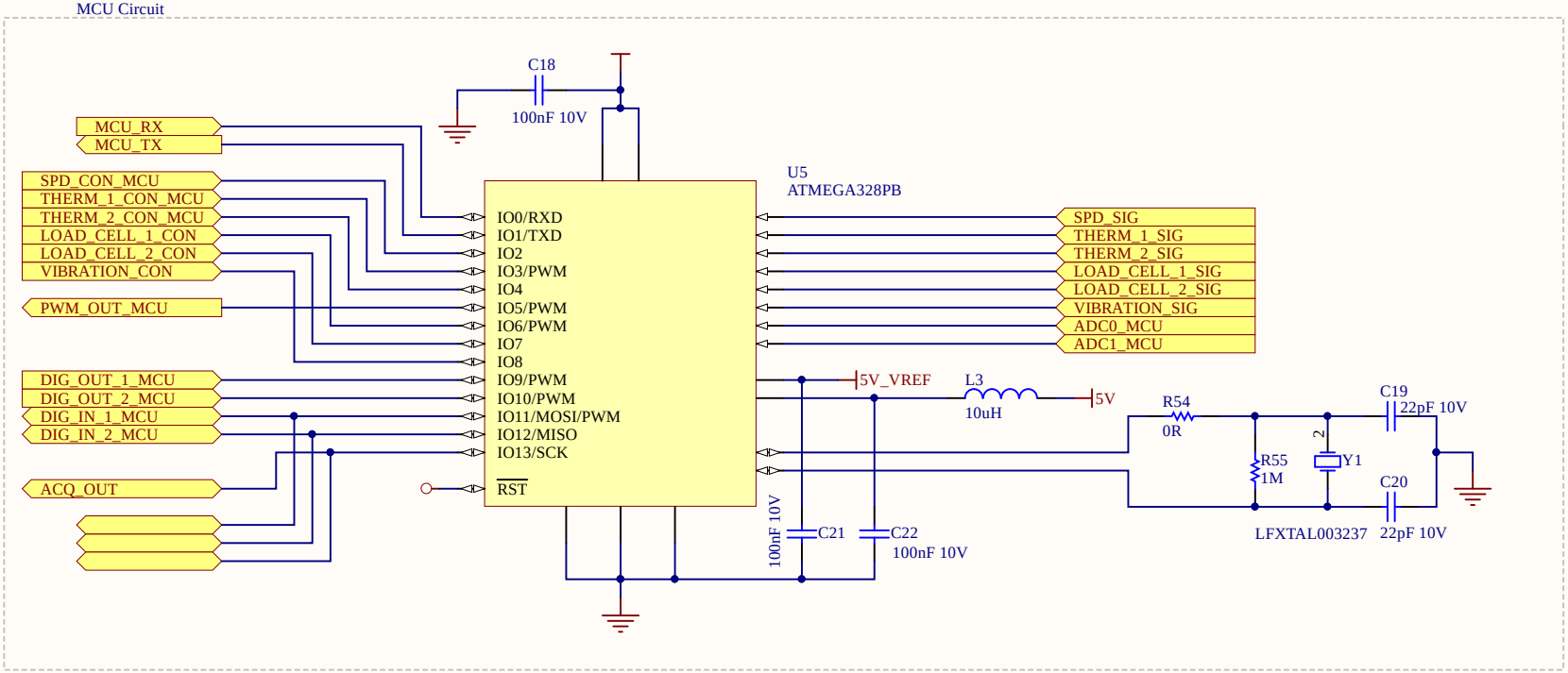


PowerSupplyLEDs



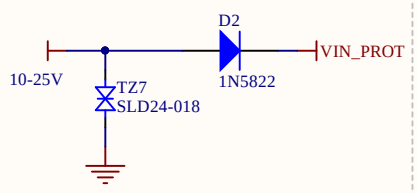
Title: Leds		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\Leds.SchDoc		

MCU Circuit

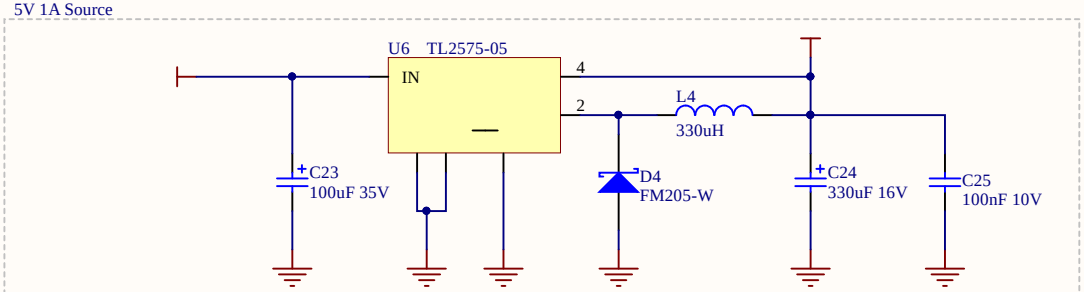


Title: MCU		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\MCU.SchDoc		

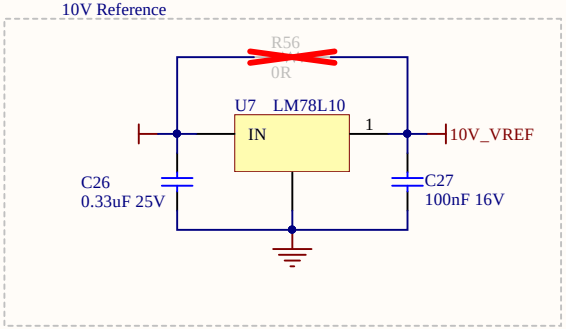
Input Protection



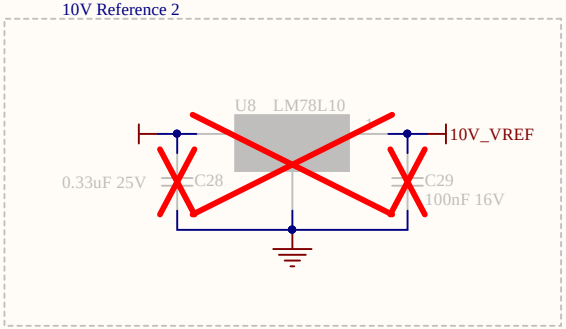
5V 1A Source



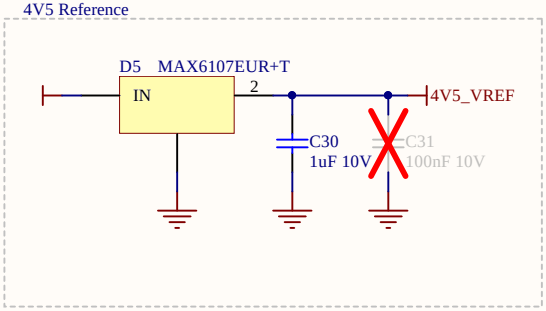
10V Reference



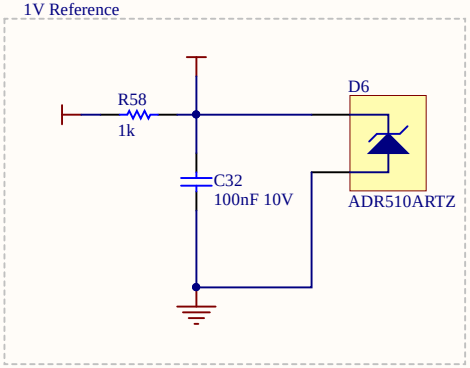
10V Reference 2



4V5 Reference

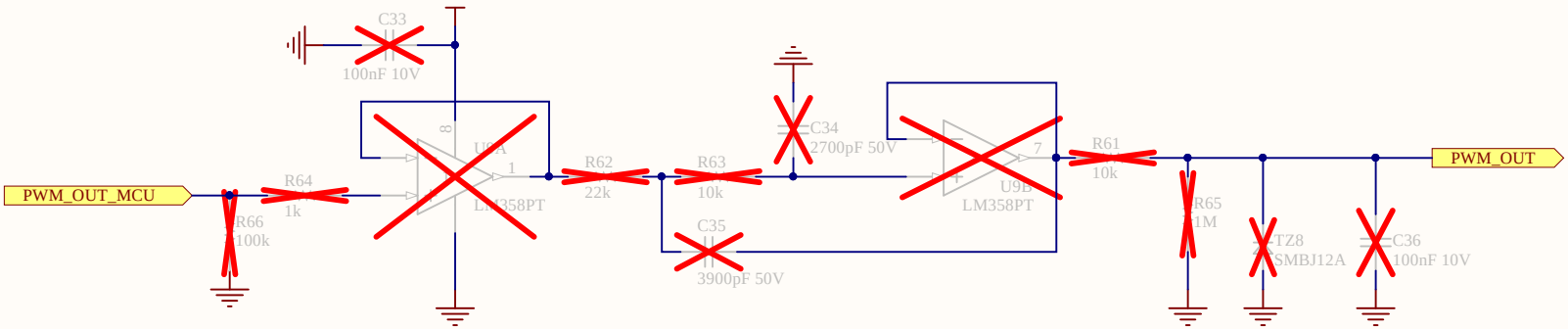


1V Reference



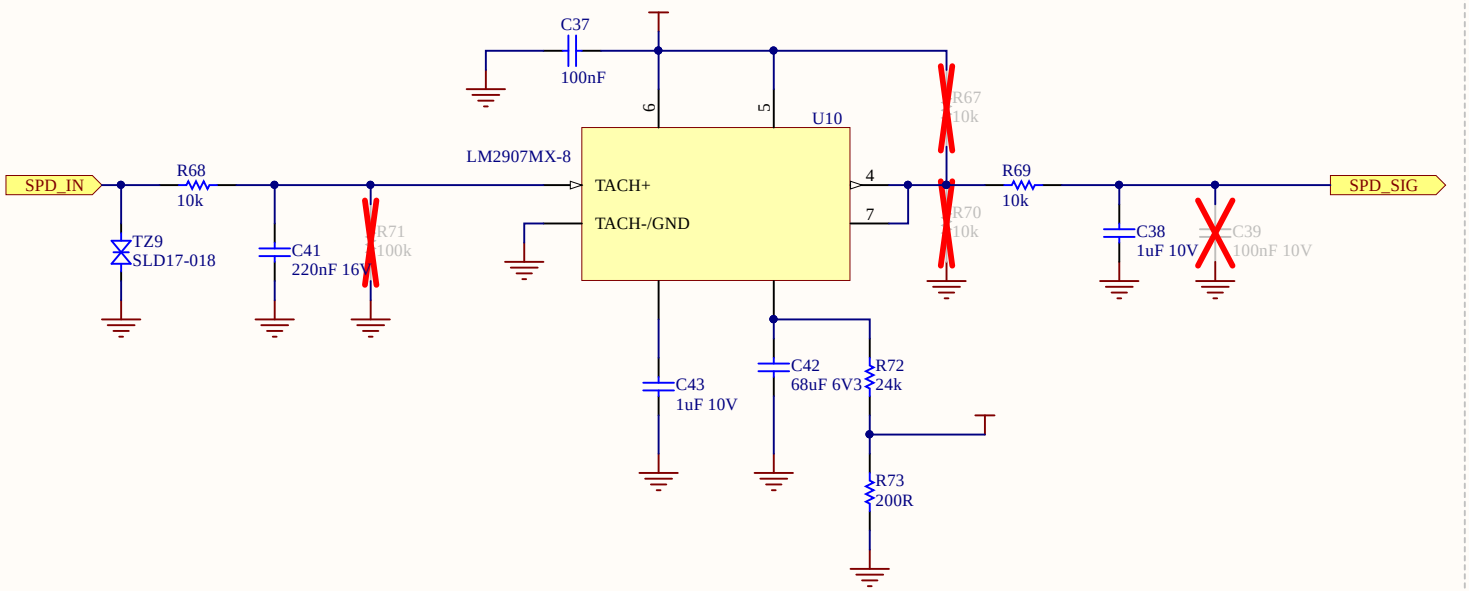
Title: PowerSupplies		Version: 1.0.0	
Project: BTB.PrjPcb .		Author: Joao Guimaraes	
Date: 27/06/2018		14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\PowerSupplies.SchDoc			

Pwm To Voltage Circuit

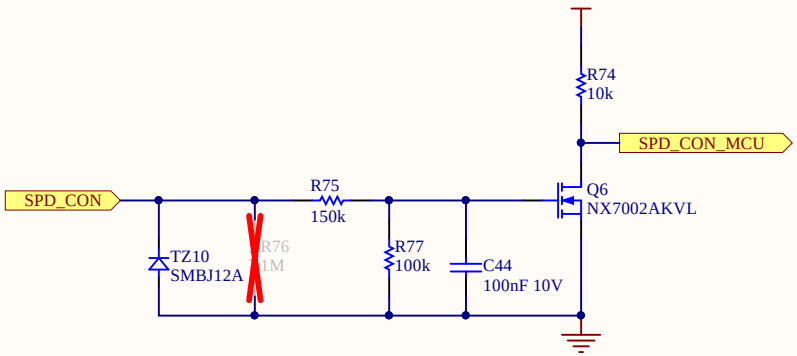


Title: PwmOut		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\PwmOut.SchDoc		

CKP Conditioning Circuit

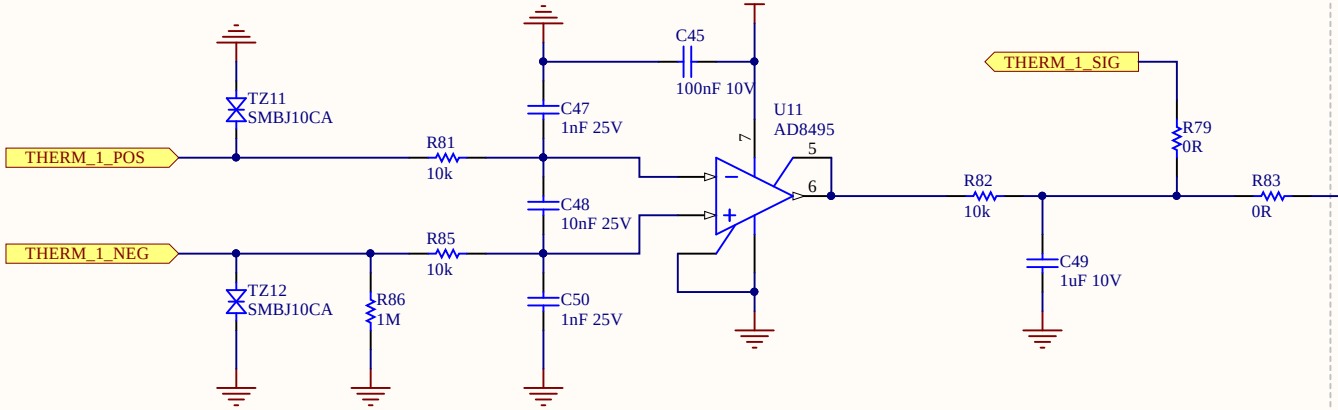


Detection Circuit

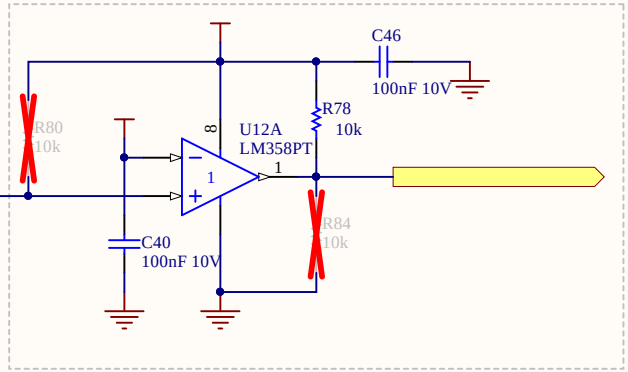


Title: SpeedACQ		Version: 1.0.0	
Project: BTB.PrjPcb .		Author: Joao Guimaraes	
Date: 27/06/2018	14		
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\SpeedACQ.SchDoc			

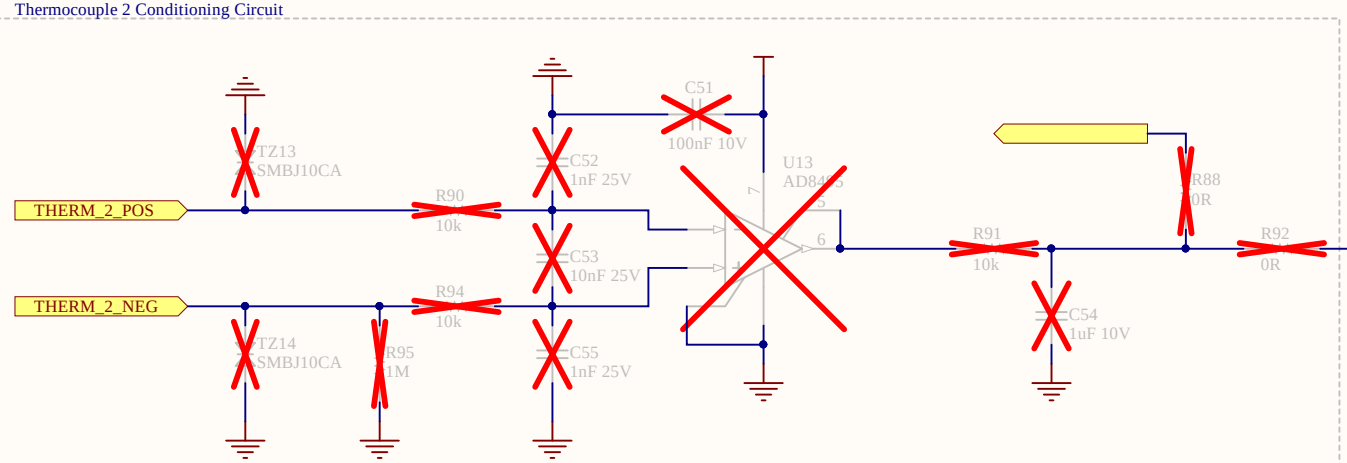
Thermocouple 1 Conditioning Circuit



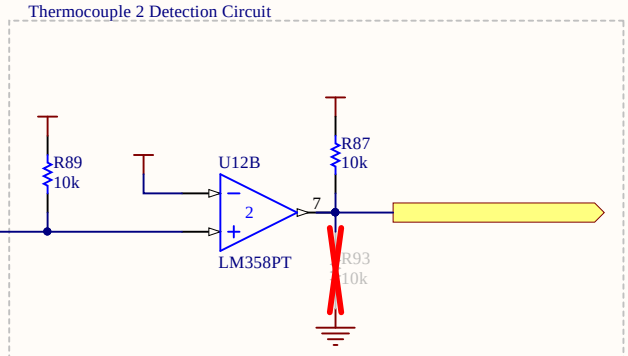
Thermocouple 1 Detection Circuit



Thermocouple 2 Conditioning Circuit

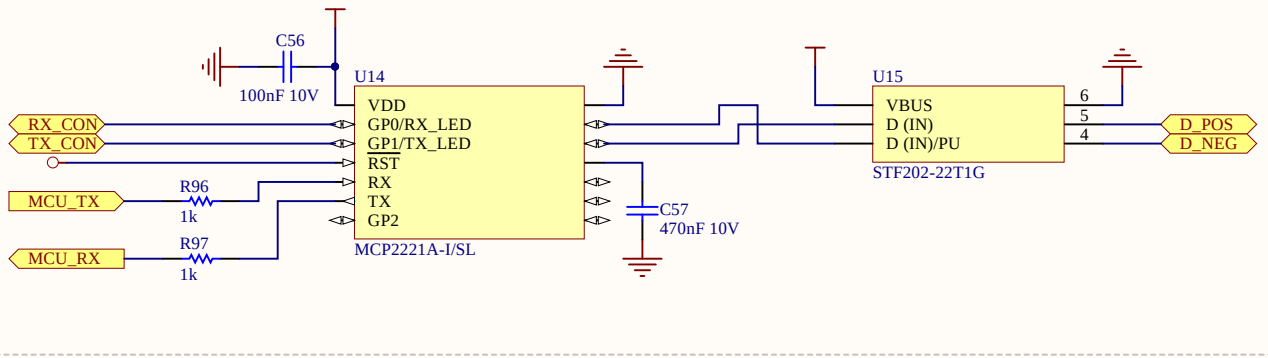


Thermocouple 2 Detection Circuit



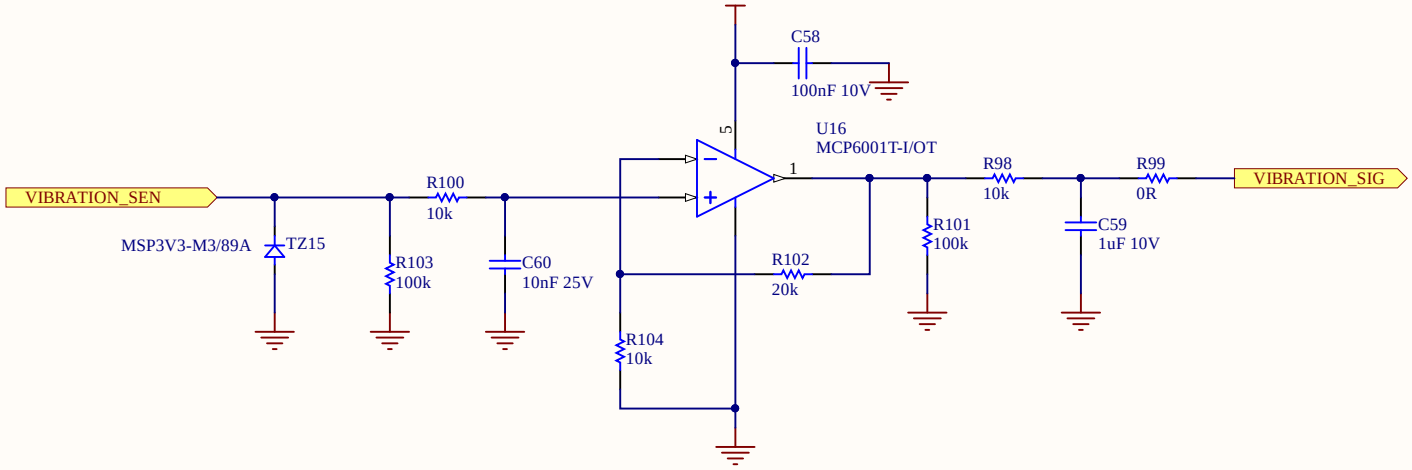
Title: TemperatureACQ		Version: 1.0	
Project: BTB.PrjPcb .		Author: Joao Guimaraes	
Date: 27/06/2018		14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\TemperatureACQ.SchDoc			

USB/UART Converter

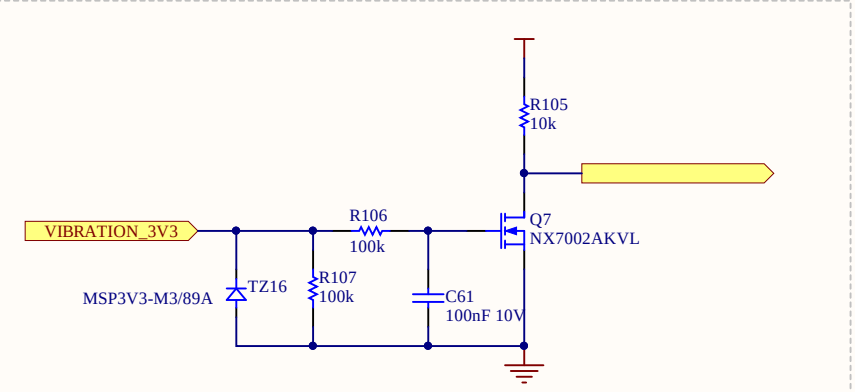


Title: USB		Version: 1.0.0
Project: BTB.PrjPcb .	Author: Joao Guimaraes	
Date: 27/06/2018	14	
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\USB.SchDoc		

Amplification Circuit



Detection Circuit



Title: VibrationACQ		Version: 1.0.0	
Project: BTB.PrjPcb .		Author: Joao Guimaraes	
Date: 27/06/2018	14		
File: C:\Users\joaog\Documents\braketestbench\hardware\Source\VibrationACQ.SchDoc			