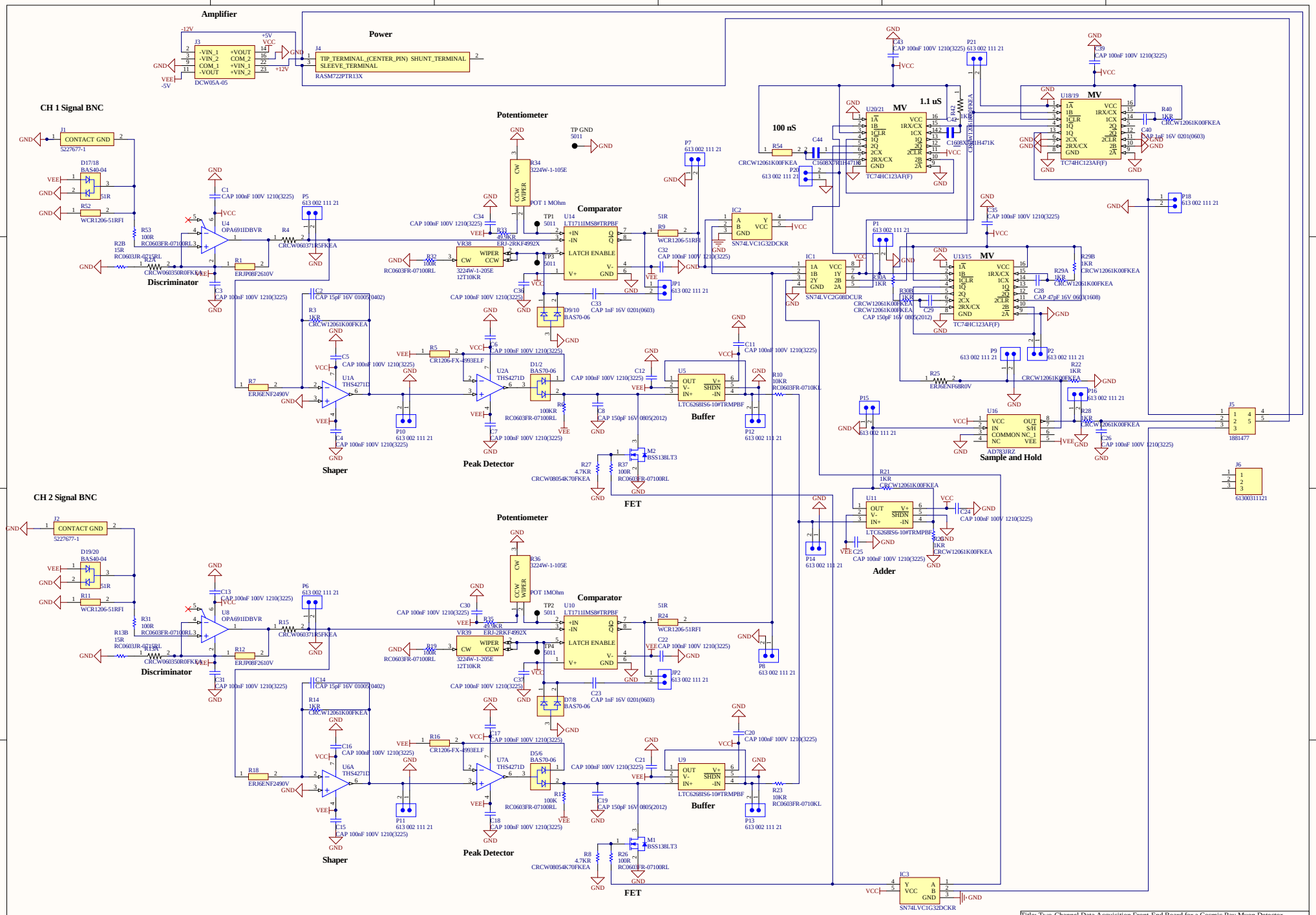
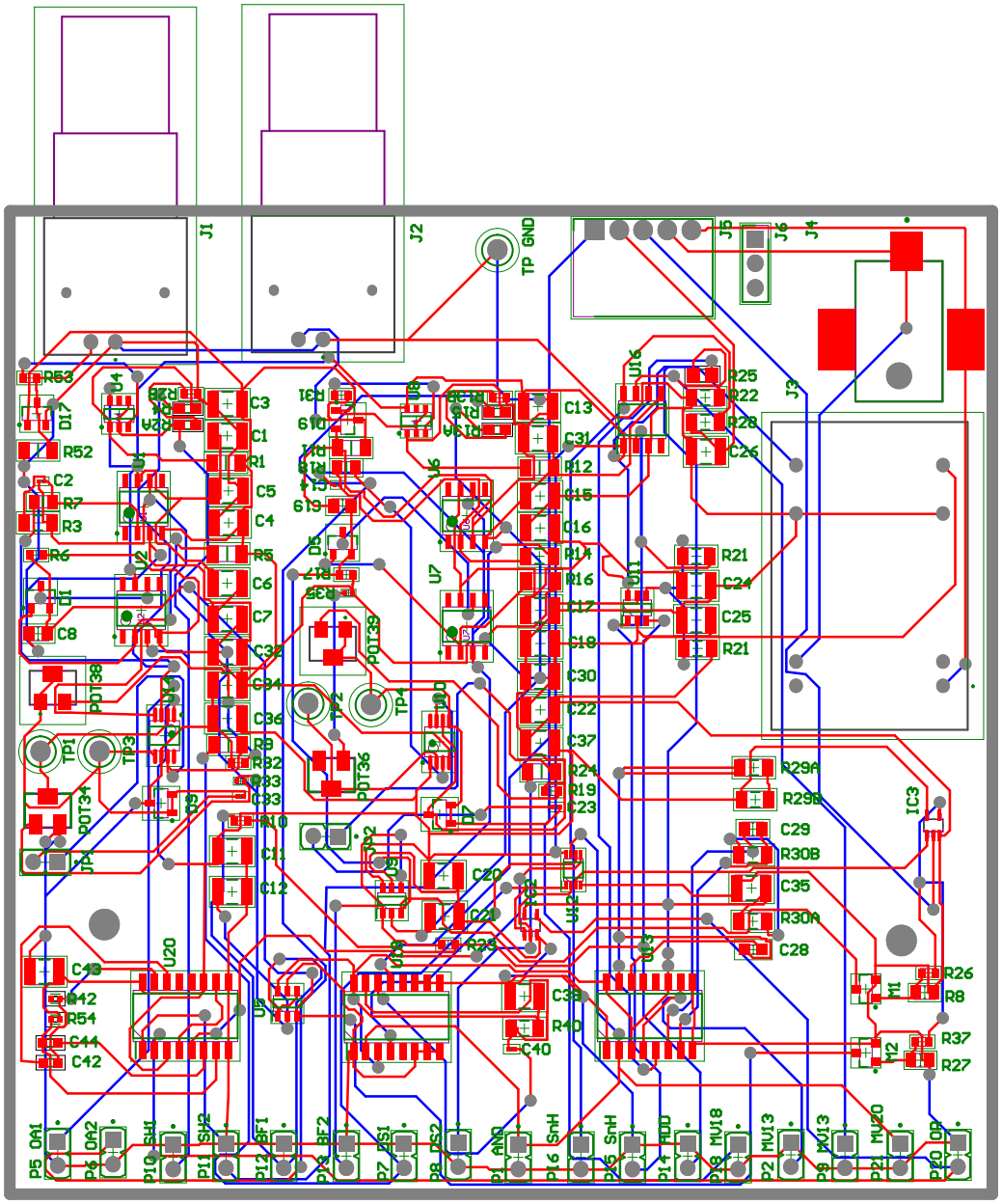

Amplifier
Power
CH 1 Signal BNC
CH 2 Signal BNC
Potentiometer
Comparator
Discriminator
Shaper
Peak Detector
Buffer
FET
Sample and Hold
Adder
100 nS
1.1 uS
MV
POT 1 MOhm
POT 1MOhm
TP GND 5011
CONTACT GND
DCW05A-05
RASM722PTR13X
OPA691IDBVR
THS4271D
LT1711IMS8#TRPBF
LATCH ENABLE
LTC6268IS6-10#TRMPBF
BSS138LT3
TC74HC123AF(F)
SN74LVC2G08DCUR
SN74LVC1G32DCKR
AD783IRZ
1881477
61300311121
Title: Two-Channel Data Acquisition Front-End Board for a Cosmic Ray Muon Detector
(CUNY-Cosmic FE DAQ, 2 channel, Rev. 1)
Queensborough Community College Department of Physics
Designers: R. Armendariz, C. Stalerman, S. Boose
Drawn by: A. Silberman
Drawing Name: PCB Schematic
Size: C
Date: 2018-12-19
Sheet: 2 of 2


J1
J2
TP GND
J5
J6
J4
J3
R53
D17
R52
C2
R7
R3
R6
C8
POT38
TP1
TP3
POT34
JP4
C13
R42
R54
C44
C42
U20
P5 OA1
P6 OA2
P10 SH1
P11 SH2
P12 BF1
P13 BF2
P7 DS1
P8 DS2
P1 AND
P16 SnH
P15 SnH
P14 AUD
P18 MU18
P2 MU13
P9 MU13
P21 MU20
P20 OR
C3
C1
R1
C5
C4
R5
C6
C7
C32
C34
C36
R9
R32
R33
C33
R10
C11
C12
C4
R28
R24
R31
R19
R13
R14
R34
R18
R30
R15
R17
R35
POT39
TP2
TP4
POT36
U7
U6
U8
U9
U10
U12
U13
U18
U19
U21
U22
C13
C31
R12
C15
C16
R14
R16
C17
C18
C30
C22
C37
R24
R19
C23
C20
C21
R29
C38
R40
C40
U16
U11
R25
R22
R28
C26
R21
C24
C25
R21
R29A
R29B
C29
R30B
C35
R30A
C28
IC3
M1
R26
R8
M2
R37
R27