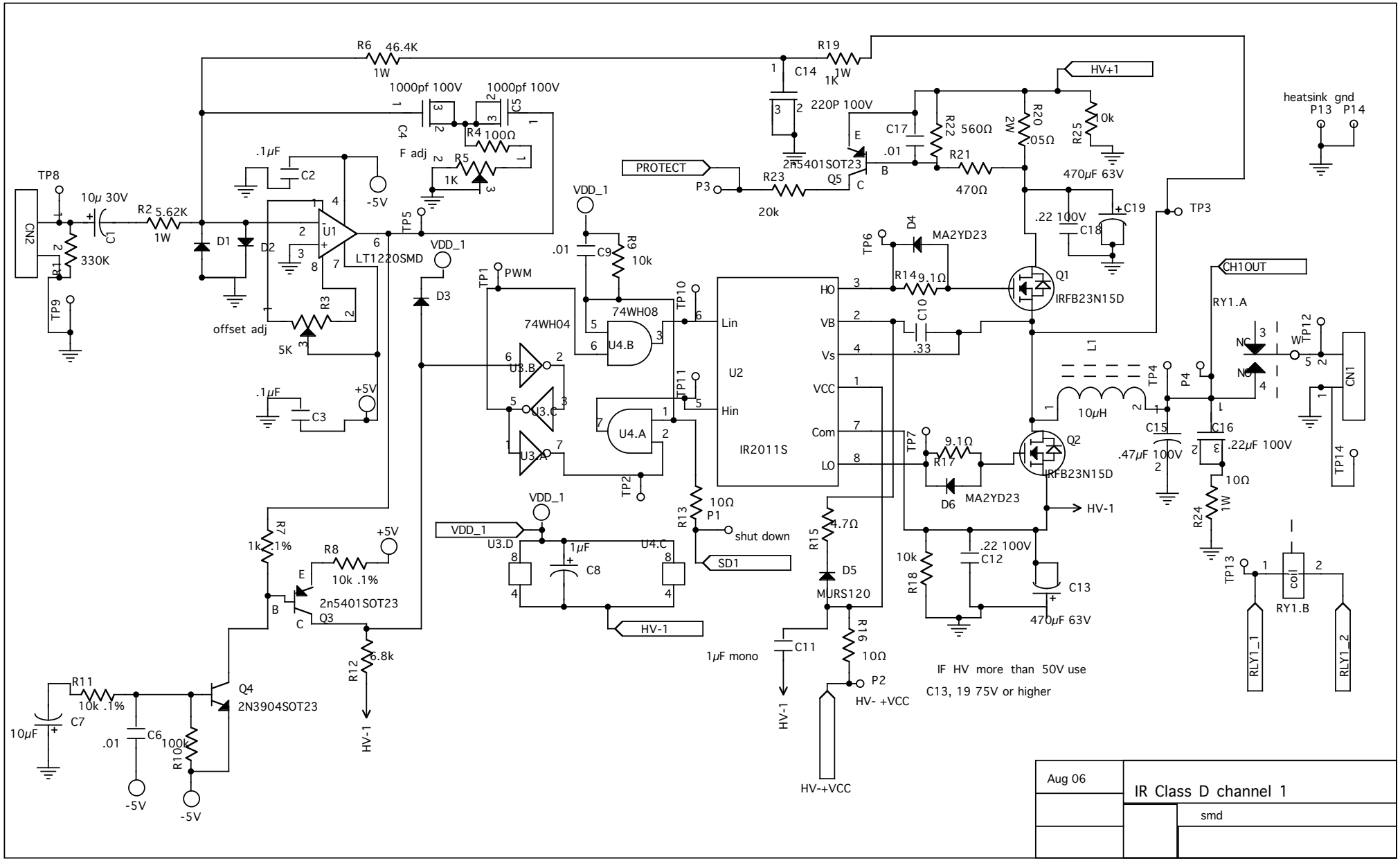
R6 46.4K 1W
R19 1W 1K
C14 220P 100V
HV+1
heatsink gnd
P13 P14
1000pf 100V
1000pf 100V
C4
C5
R4 100Ω
F adj
R5 1K
.1µF
C2
-5V
TP8
10µ 30V
C1
R2 5.62K 1W
CN2
R1 330K
TP9
D1
D2
U1
LT1220SMD
TP5
VDD_1
D3
offset adj
R3 5K
.1µF
C3
+5V
PROTECT
P3
R23 20k
2n5401SOT23
Q5
C17 .01
R22 560Ω
R21 470Ω
R20 2W .05Ω
R25 10k
470µF 63V
C19
.22 100V
C18
TP3
VDD_1
.01
C9
R9 10k
TP1
PWM
74WH04
74WH08
U4.B
U3.B
U3.C
U3.A
U4.A
TP10
TP11
TP2
Lin
Hin
U2
IR2011S
HO
VB
Vs
VCC
Com
LO
TP6
D4
MA2YD23
R14 9.1Ω
C10 .33
Q1
IRFB23N15D
CH1OUT
RY1.A
L1
10µH
TP4
P4
C15 .47µF 100V
C16 .22µF 100V
10Ω
R24 1W
TP12
CN1
TP14
TP7
9.1Ω
R17
D6
MA2YD23
Q2
IRFB23N15D
HV-1
R13 10Ω
P1
shut down
SD1
VDD_1
U3.D
1µF
C8
U4.C
HV-1
R15 4.7Ω
D5
MURS120
R18 10k
.22 100V
C12
C13
470µF 63V
TP13
coil
RY1.B
RLY1_1
RLY1_2
R7 1k .1%
R8 10k .1%
+5V
2n5401SOT23
Q3
R12 6.8k
HV-1
R11 10k .1%
C7 10µF
.01
C6
R10 100k
-5V
-5V
Q4
2N3904SOT23
1µF mono
C11
HV-1
R16 10Ω
P2
HV- +VCC
HV-+VCC
IF HV more than 50V use
C13, 19 75V or higher
Aug 06
IR Class D channel 1
smd