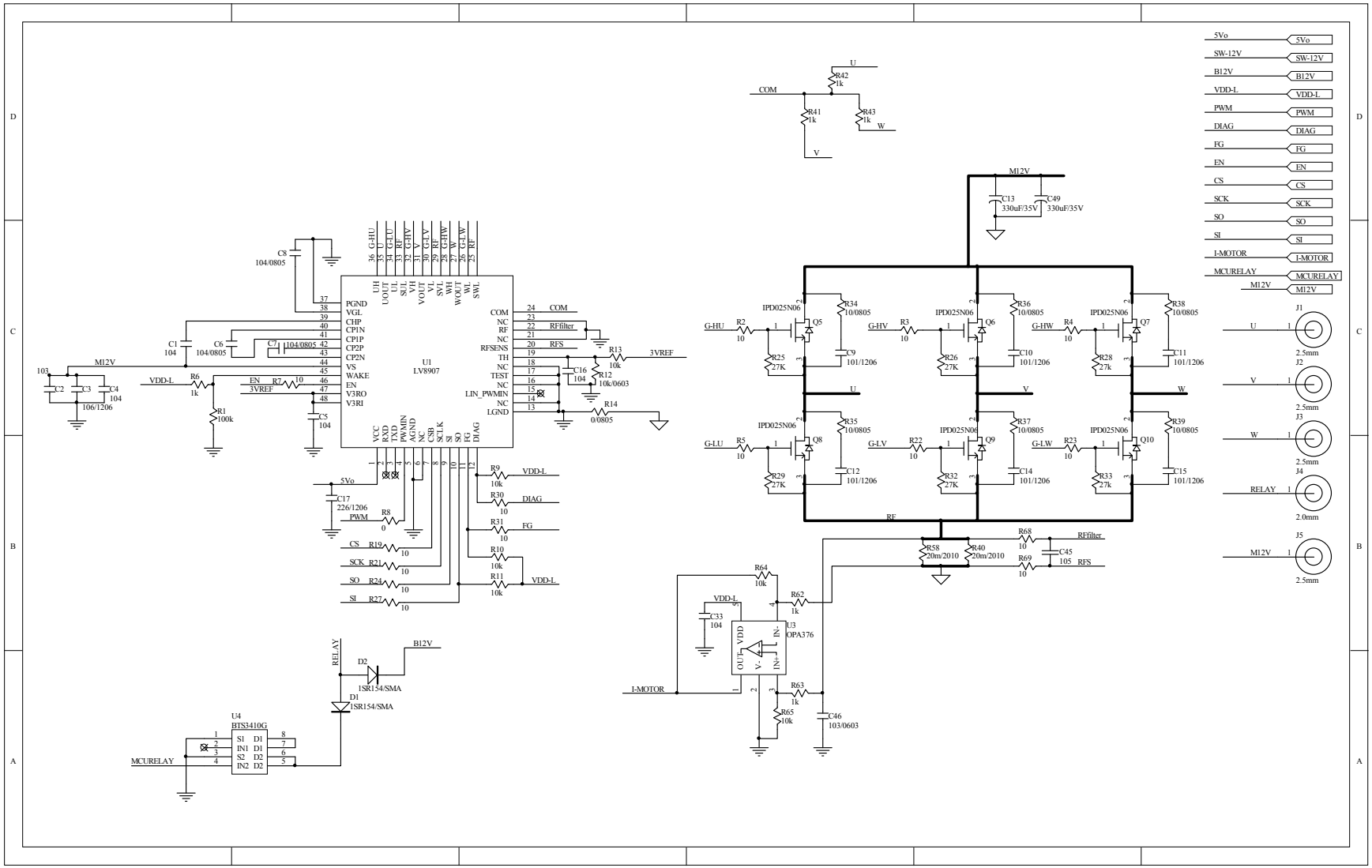
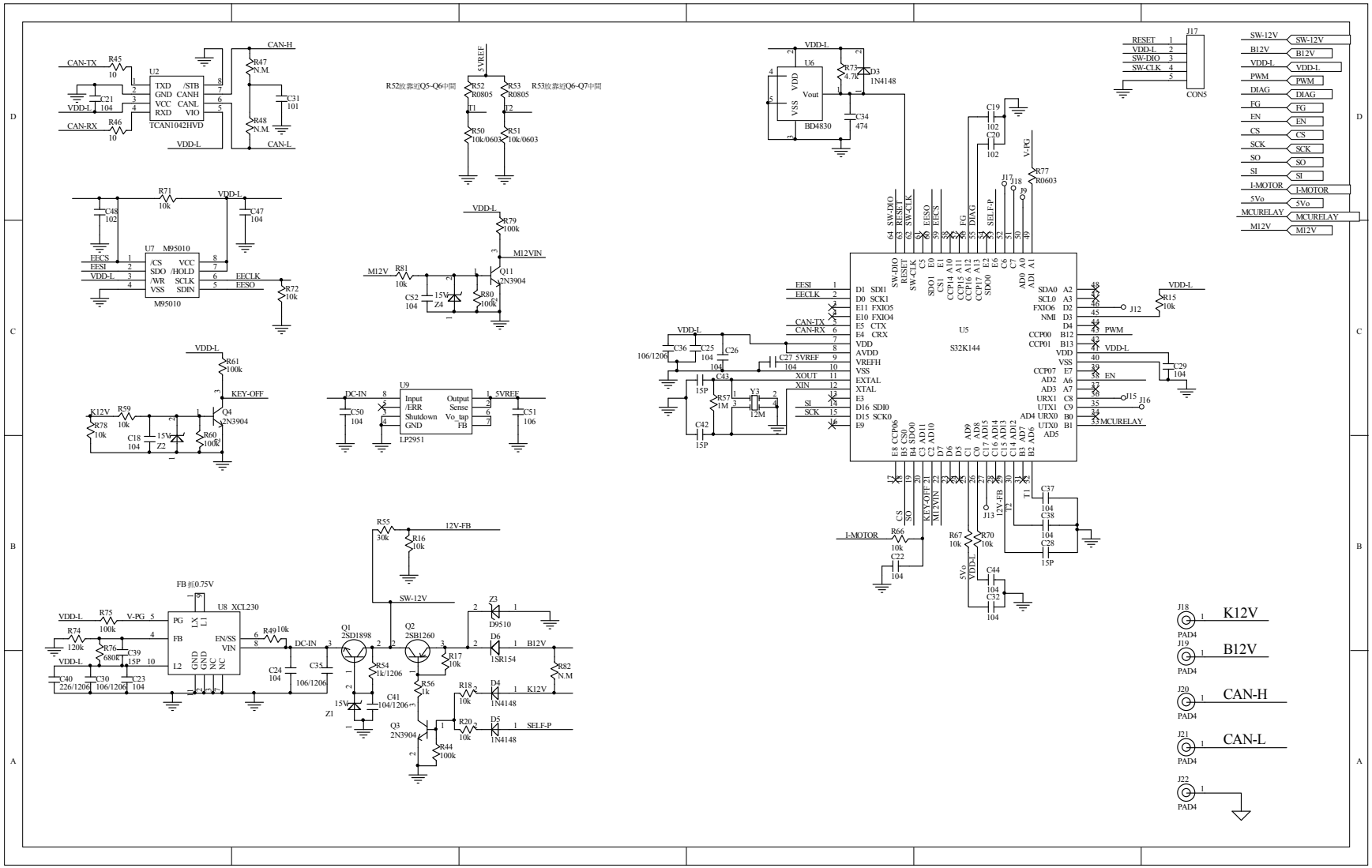

U1
LV8907
PGND
VGL
CHP
CP1N
CP1P
CP2P
CP2N
VS
WAKE
EN
V3RO
V3RI
COM
NC
RF
RFSENS
TH
TEST
LIN_PWMIN
LGND
VCC
RXD
TXD
PWMIN
AGND
CSB
SCLK
SI
SO
FG
DIAG
M12V
3VREF
5Vo
VDD-L
B12V
RELAY
MCURELAY
U4
BTS3410G
D1
1SR154/SMA
D2
1SR154/SMA
U3
OPA376
I-MOTOR
IPD025N06
G-HU
G-HV
G-HW
G-LU
G-LV
G-LW
RFilter
RFS
PWM
CS
SCK
SO
SI
DIAG
FG
J1
J2
J3
J4
J5
2.5mm
2.0mm


U2
TCAN1042HVD
TXD /STB
GND CANH
VCC CANL
RXD VIO
CAN-TX
CAN-RX
CAN-H
CAN-L
VDD-L
R45 10
R46 10
C21 104
R47 N.M.
R48 N.M.
C31 101
R52放靠近Q5-Q6中間
R53放靠近Q6-Q7中間
5VREF
R52 R0805
R53 R0805
R50 10k/0603
R51 10k/0603
U7 M95010
/CS VCC
SDO /HOLD
/WR SCLK
VSS SDIN
EECS
EESI
EECLK
EESO
R71 10k
C48 102
C47 104
R72 10k
M12VIN
R79 100k
Q11 2N3904
M12V
R81 10k
C52 104
R80 100k
Z4
KEY-OFF
R61 100k
Q4 2N3904
K12V
R59 10k
R78 10k
C18 104
Z2
R60 100k
U9 LP2951
Input Output
/ERR Sense
Shutdown Vo_tap
GND FB
DC-IN
C50 104
C51 106
U8 XCL230
FB 抓0.75V
PG
FB
L2
LX L1
EN/SS
VIN
GND GND NC NC
R75 100k
V-PG
R74 120k
R76 680R
C39 15P
C40 226/1206
C30 106/1206
C23 104
R49 10k
C24 104
C35 106/1206
R55 30k
R16 10k
12V-FB
SW-12V
Q1 2SD1898
Q2 2SB1260
R54 1k/1206
R56 1k
R17 10k
Z1 15V
C41 104/1206
Q3 2N3904
R44 100k
Z3 D9510
D6 1SR154
B12V
R82 N.M
D4 1N4148
K12V
R18 10k
R20 10k
D5 1N4148
SELF-P
U6 BD4830
VDD Vout
VSS
R73 4.7k
D3 1N4148
C34 474
C19 102
C20 102
R77 R0603
V-PG
J17
J18
J19
J20
J21
J22
PAD4
K12V
B12V
CAN-H
CAN-L
U5 S32K144
SW-DIO
RESET
SW-CLK
EESO
EESCS
FG
DIAG
SELF-P
EESI
EECLK
CAN-TX
CAN-RX
5VREF
XOUT
XIN
SI
SCK
PWM
EN
MCURELAY
J12
J13
J15
J16
R15 10k
C29 104
C36 106/1206
C25 104
C26 104
C27 104
C43 15P
R57 1M
Y3 12M
C42 15P
C37 104
C38 104
C28 15P
I-MOTOR
R66 10k
C22 104
R67 10k
R70 10k
C44 104
C32 104
5Vo
J7
RESET
VDD-L
SW-DIO
SW-CLK
CON5
SW-12V
B12V
VDD-L
PWM
DIAG
FG
EN
CS
SCK
SO
SI
I-MOTOR
5Vo
MCURELAY
M12V