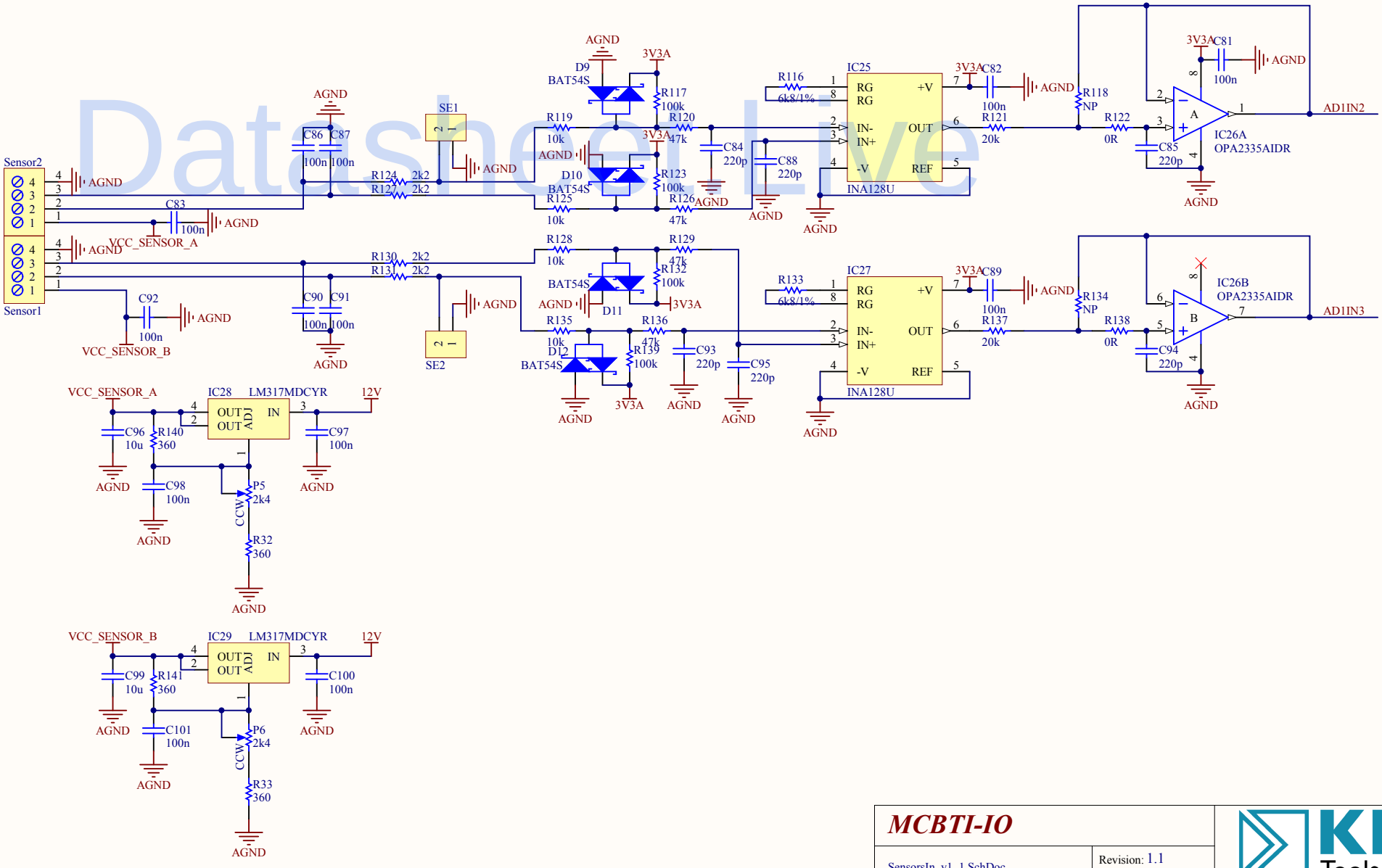

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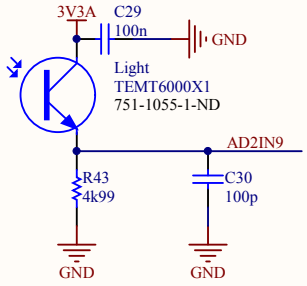

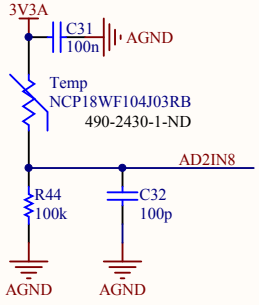

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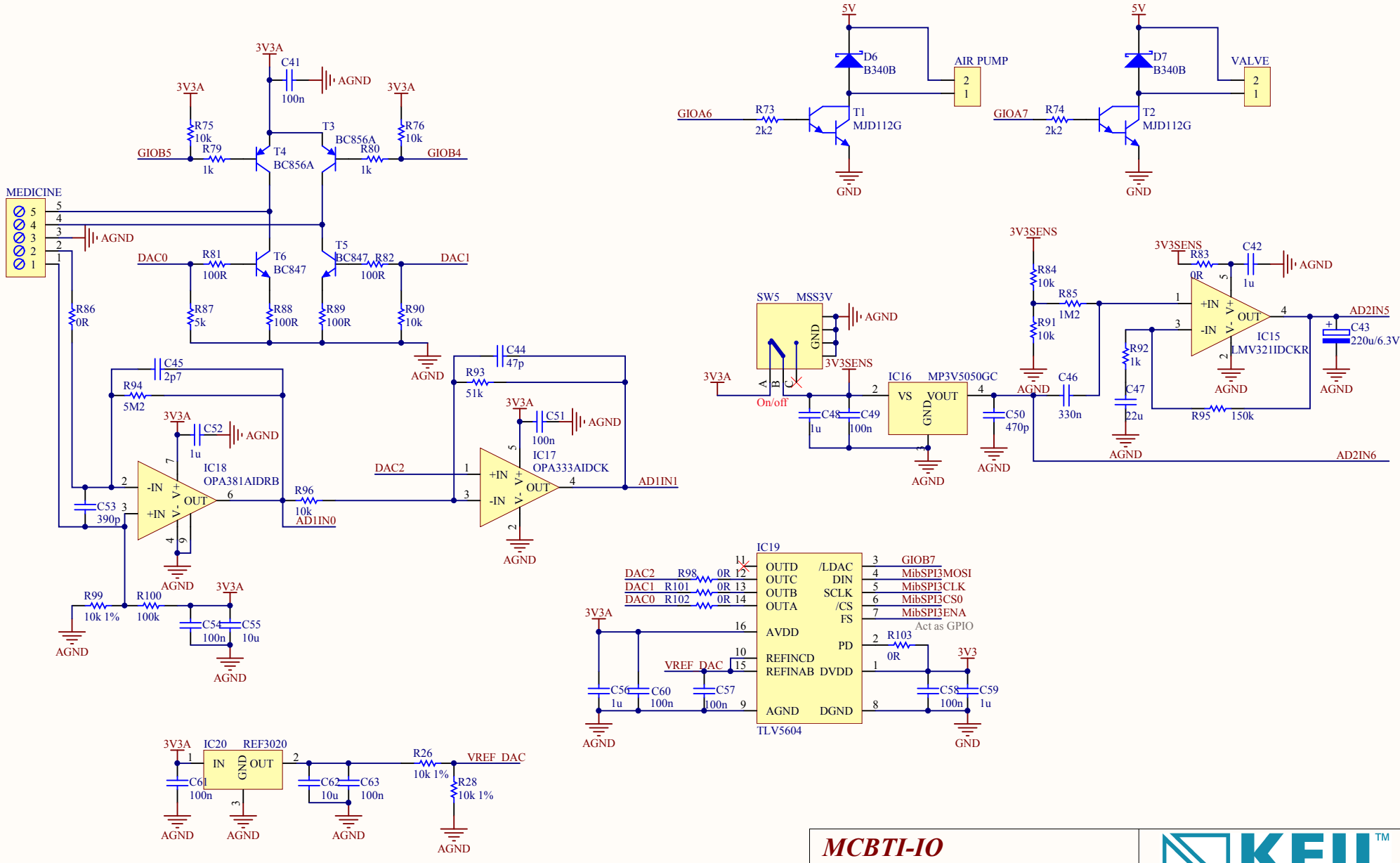
MEDICINE
3V3A
AGND
C41
100n
R75
10k
R76
10k
GIOB5
R79
1k
T4
BC856A
T3
BC856A
R80
1k
GIOB4
DAC0
R81
100R
T6
BC847
T5
BC847
R82
100R
DAC1
R86
0R
R87
5k
R88
100R
R89
100R
R90
10k
C44
47p
R93
51k
C45
2p7
R94
5M2
C52
1u
IC18
OPA381AIDRB
C53
390p
R96
10k
AD1IN0
DAC2
C51
100n
IC17
OPA333AIDCK
AD1IN1
R99
10k 1%
R100
100k
C54
100n
C55
10u
5V
D6
B340B
AIR PUMP
GIOA6
R73
2k2
T1
MJD112G
D7
B340B
VALVE
GIOA7
R74
2k2
T2
MJD112G
GND
3V3SENS
SW5
MSS3V
On/off
IC16
MP3V5050GC
VS
VOUT
GND
C48
1u
C49
100n
C50
470p
R84
10k
R85
1M2
R91
10k
C46
330n
R83
0R
C42
1u
IC15
LMV321IDCKR
R92
1k
C47
22u
R95
150k
C43
220u/6.3V
AD2IN5
AD2IN6
IC19
TLV5604
OUTD
OUTC
OUTB
OUTA
AVDD
REFINCD
REFINAB
AGND
/LDAC
DIN
SCLK
/CS
FS
PD
DVDD
DGND
DAC2
DAC1
DAC0
R98
R101
R102
0R
GIOB7
MibSPI3MOSI
MibSPI3CLK
MibSPI3CS0
MibSPI3ENA
Act as GPIO
R103
0R
3V3
VREF_DAC
C56
1u
C60
100n
C57
100n
C58
100n
C59
1u
IC20
REF3020
IN
GND
OUT
C61
100n
C62
10u
C63
100n
R26
10k 1%
R28
10k 1%
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MedicineSensors_v1_1.SchDoc
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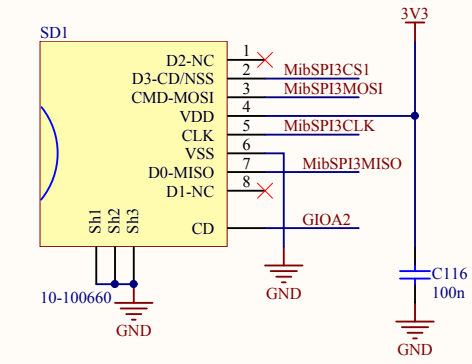

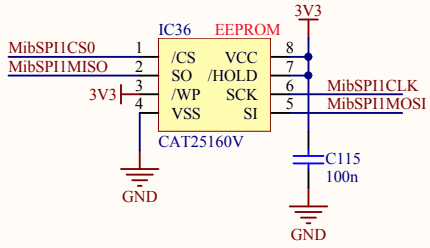

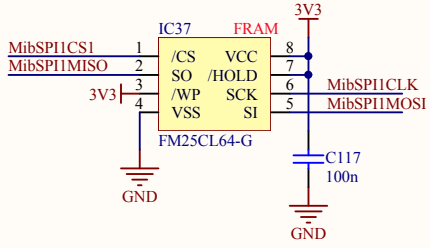

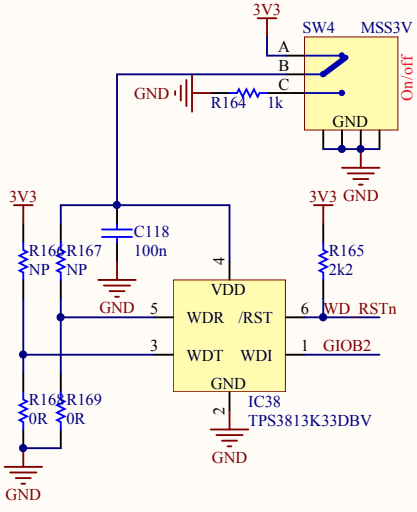

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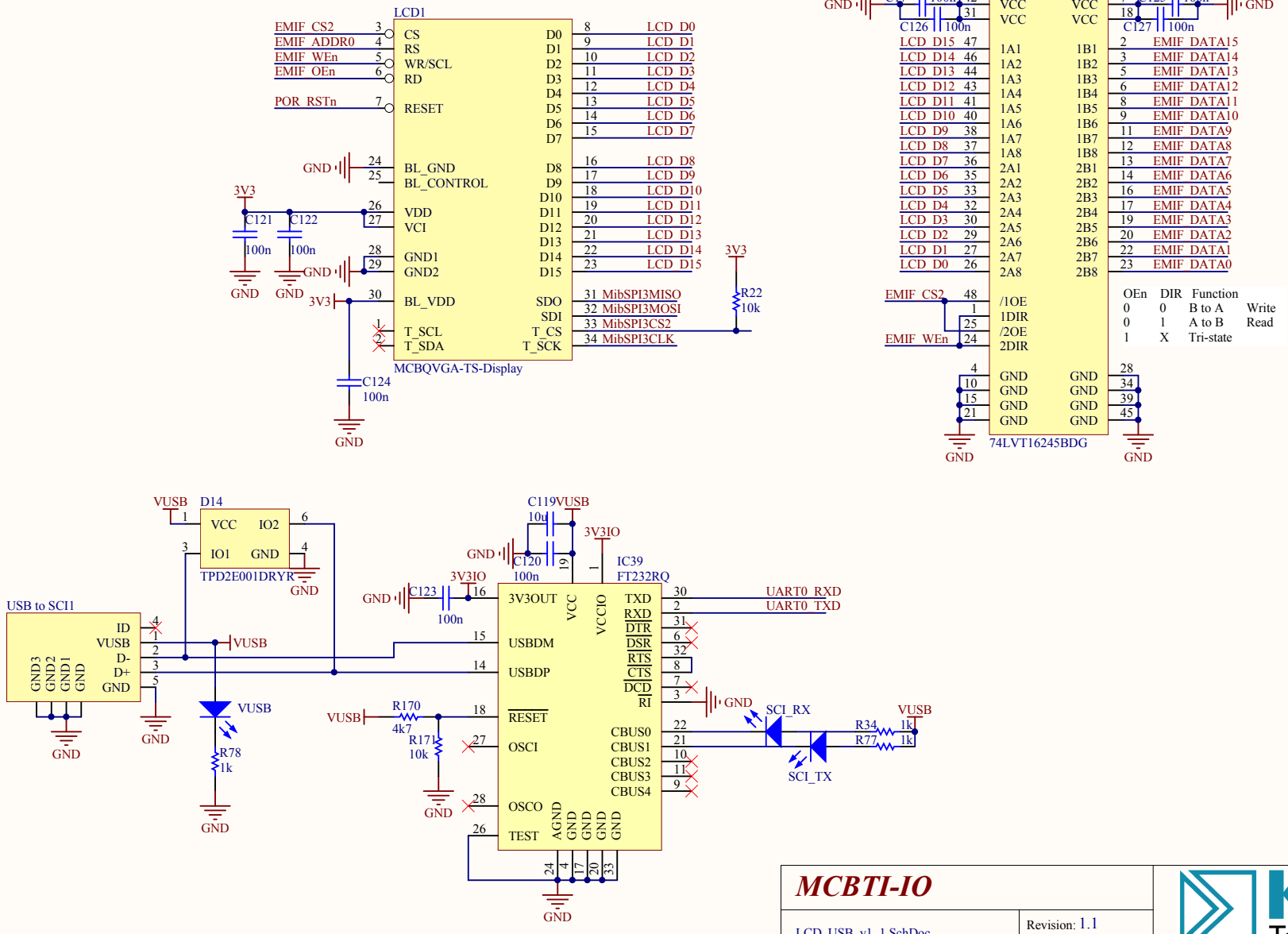
LCD1
MCBQVGA-TS-Display
IC8
74LVT16245BDG
IC39
FT232RQ
D14
TPD2E001DRYR
USB to SCI1
MCBTI-IO
LCD_USB_v1_1.SchDoc
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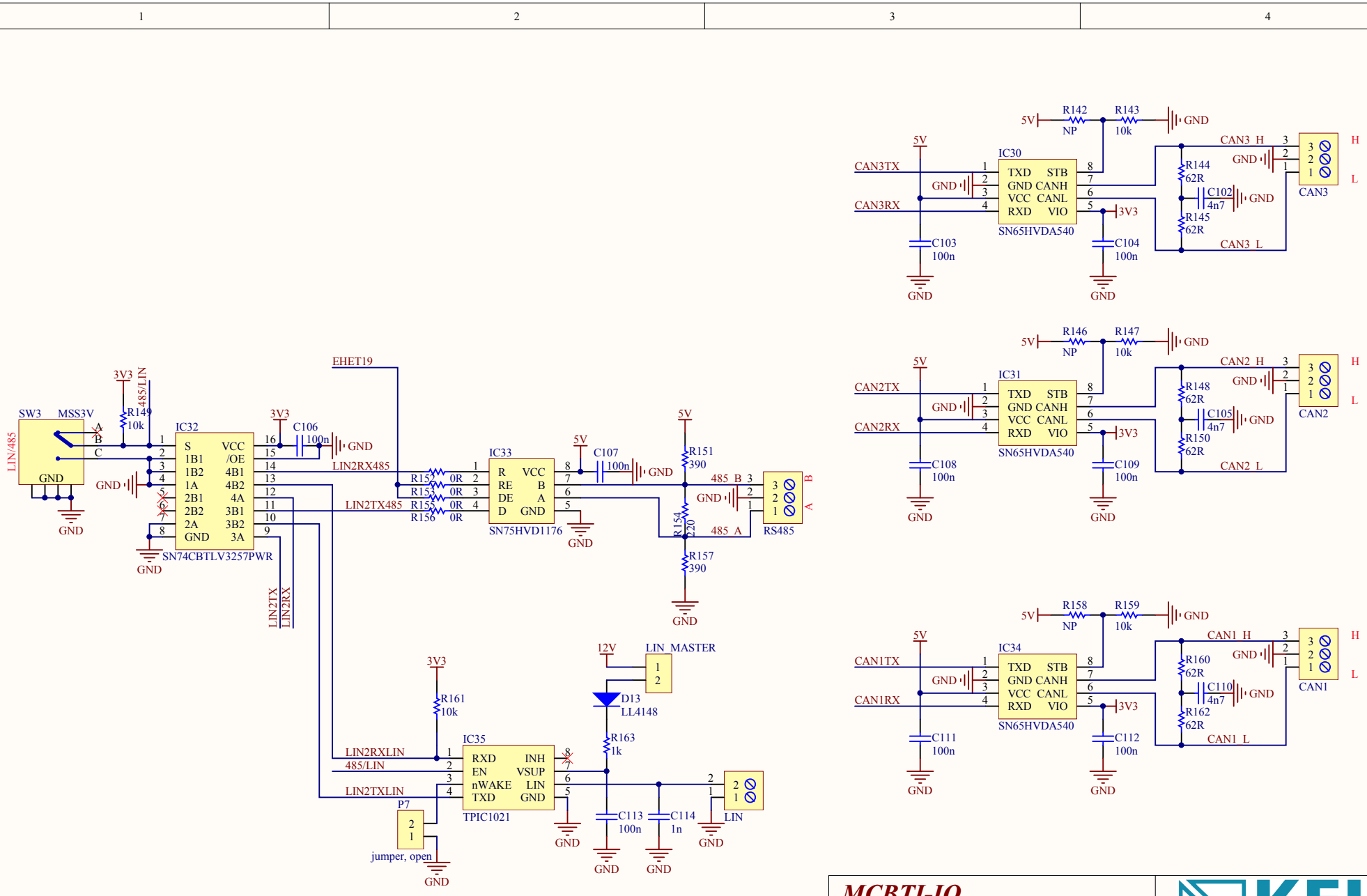
SW3 MSS3V
LIN/485
GND
3V3
485/LIN
R149 10k
IC32
SN74CBTLV3257PWR
C106 100n
LIN2RX485
LIN2TX485
LIN2TX
LIN2RX
EHET19
IC33
SN75HVD1176
R152 0R
R153 0R
R155 0R
R156 0R
C107 100n
5V
R151 390
R154 220
R157 390
485_B
485_A
RS485
IC30
SN65HVDA540
CAN3TX
CAN3RX
R142 NP
R143 10k
R144 62R
R145 62R
C102 4n7
C103 100n
C104 100n
CAN3_H
CAN3_L
CAN3
IC31
CAN2TX
CAN2RX
R146 NP
R147 10k
R148 62R
R150 62R
C105 4n7
C108 100n
C109 100n
CAN2_H
CAN2_L
CAN2
IC34
CAN1TX
CAN1RX
R158 NP
R159 10k
R160 62R
R162 62R
C110 4n7
C111 100n
C112 100n
CAN1_H
CAN1_L
CAN1
12V
LIN_MASTER
D13 LL4148
R161 10k
R163 1k
IC35
TPIC1021
LIN2RXLIN
485/LIN
LIN2TXLIN
P7
jumper, open
C113 100n
C114 1n
LIN
MCBTI-IO
CAN_LIN_RS485_v1_1.SchDoc
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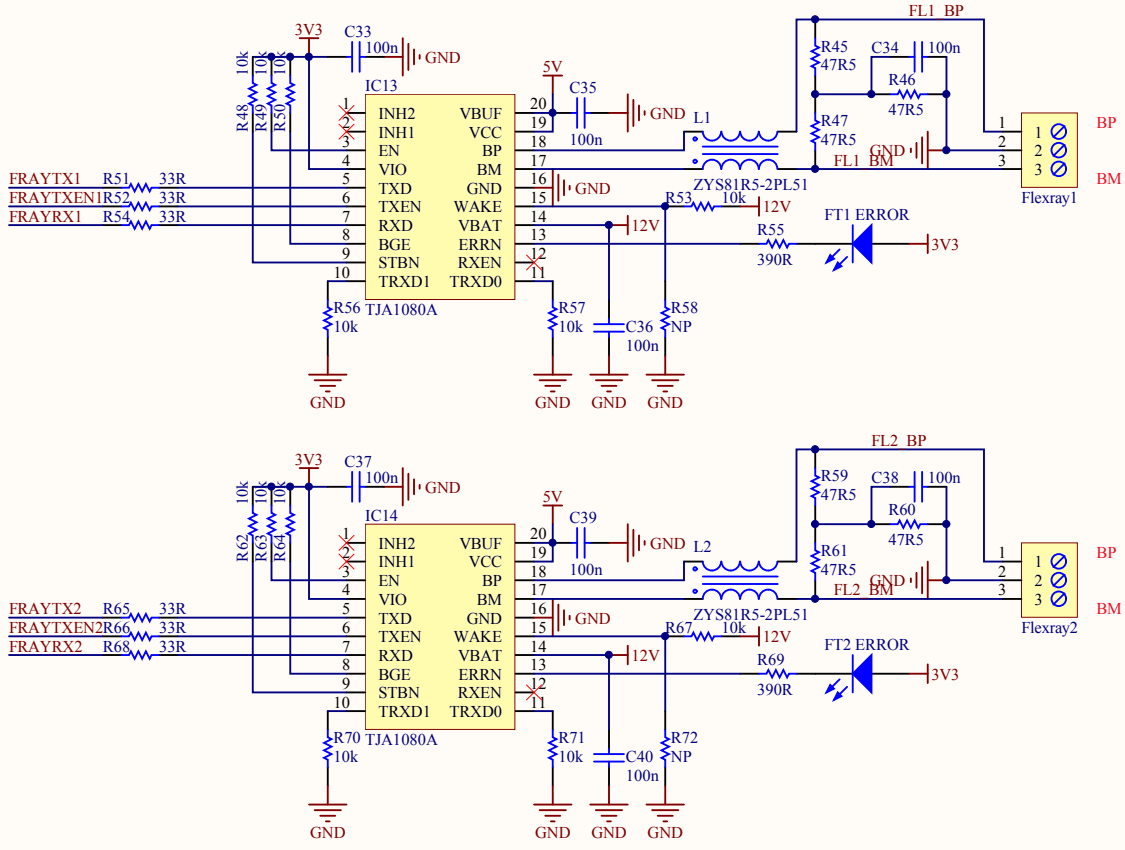

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Flexray_v1_1.SchDoc	Revision: 1.1
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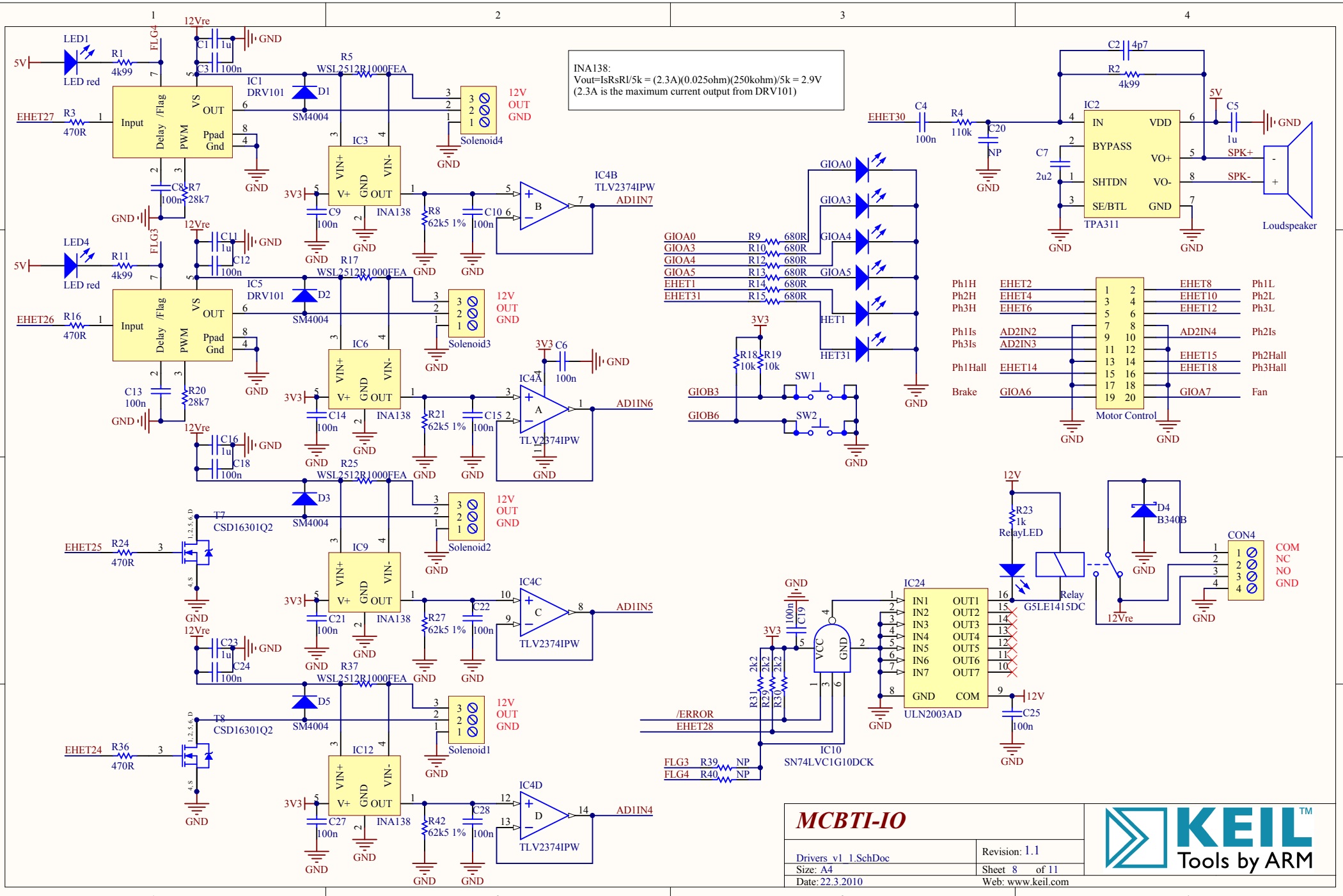
INA138:
Vout=IsRsRl/5k = (2.3A)(0.025ohm)(250kohm)/5k = 2.9V
(2.3A is the maximum current output from DRV101)
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Drivers_v1_1.SchDoc
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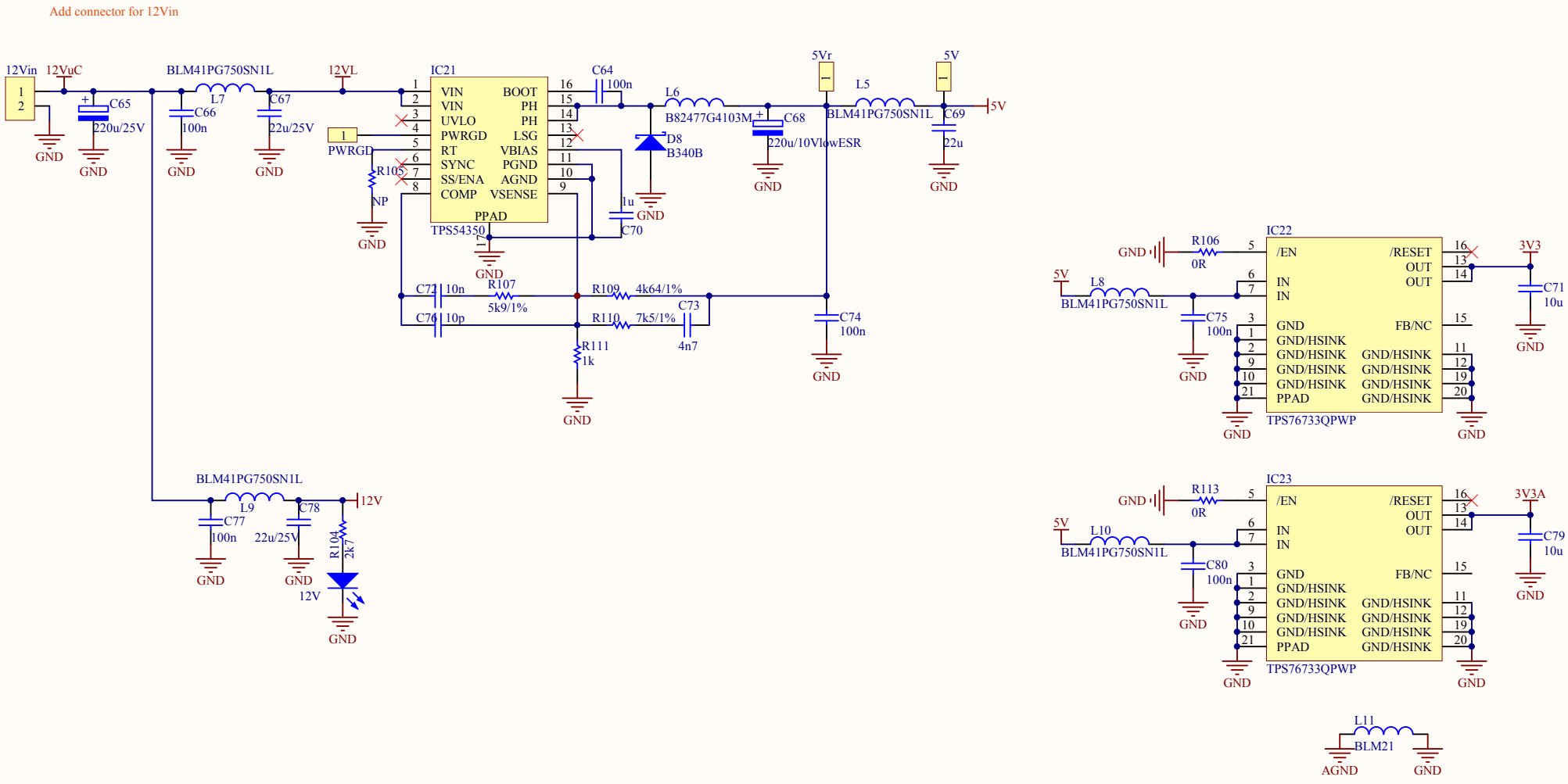

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Power_v1_1.SchDoc	Revision: 1.1
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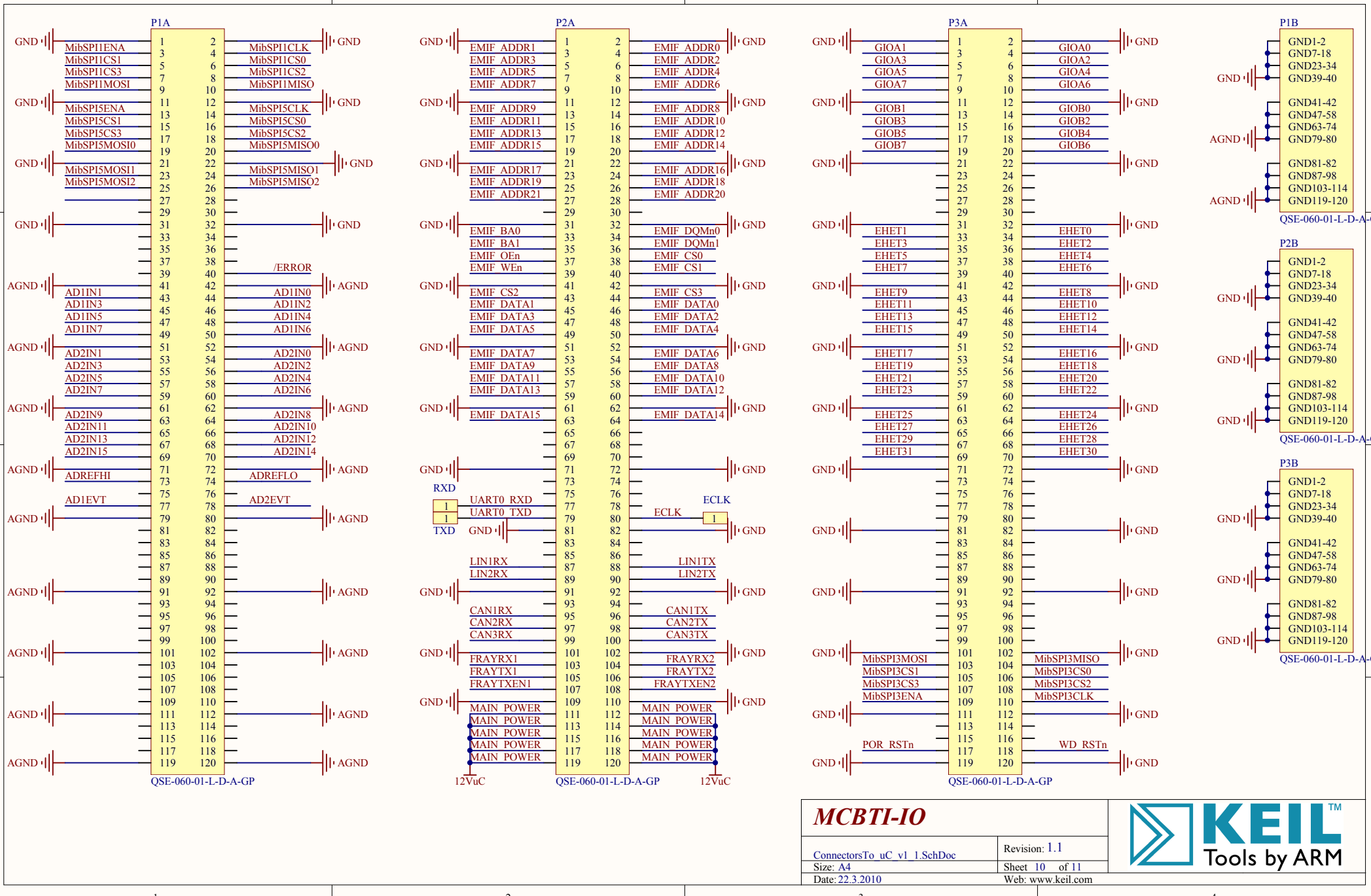

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ConnectorsTo_uC_v1_1.SchDoc	Revision: 1.1
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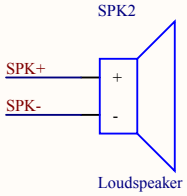

CE

ROHS

WEEE

KEIL logo

TI logo

Corner1 Corner2 Corner3 Corner4

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