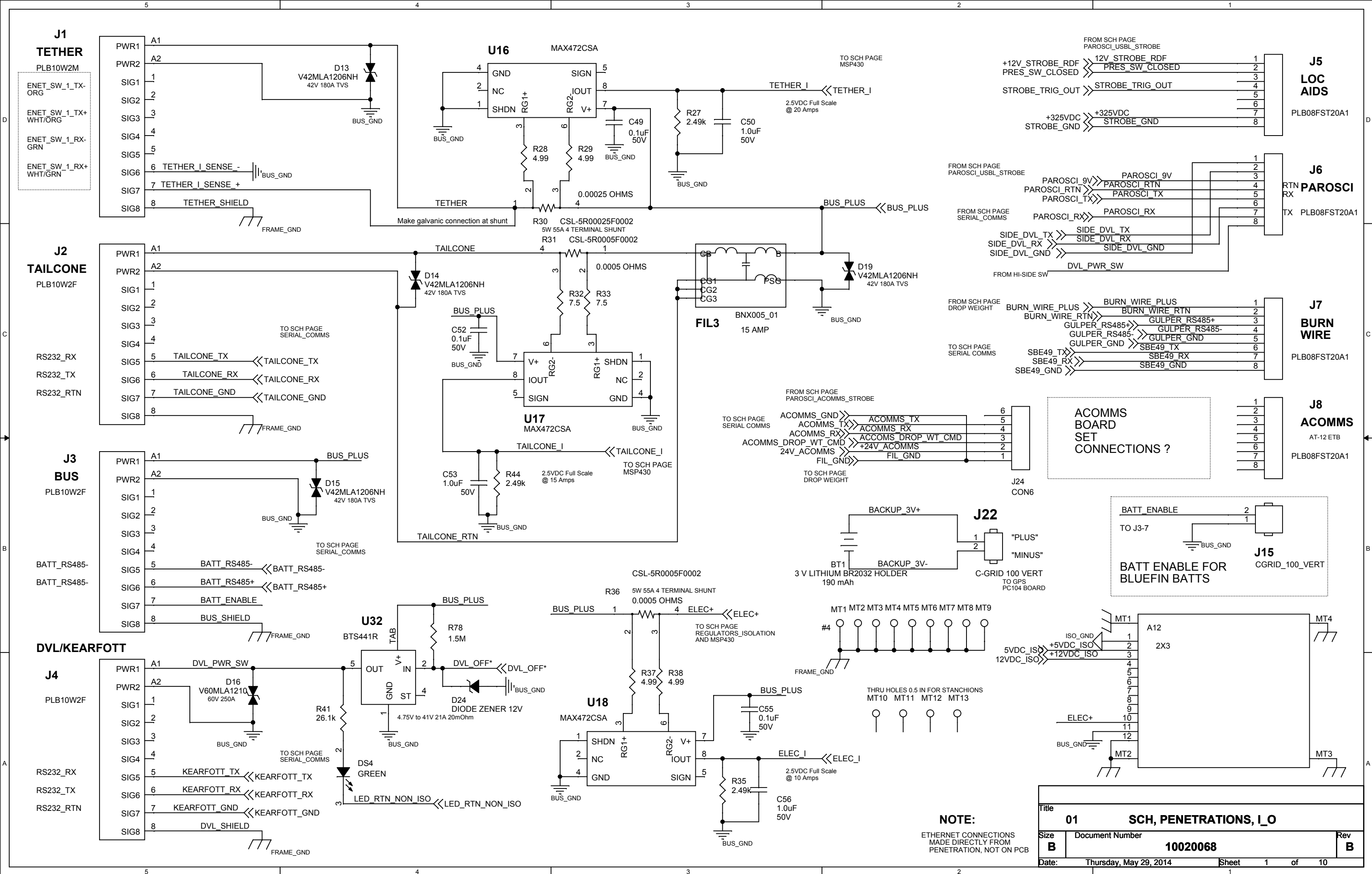
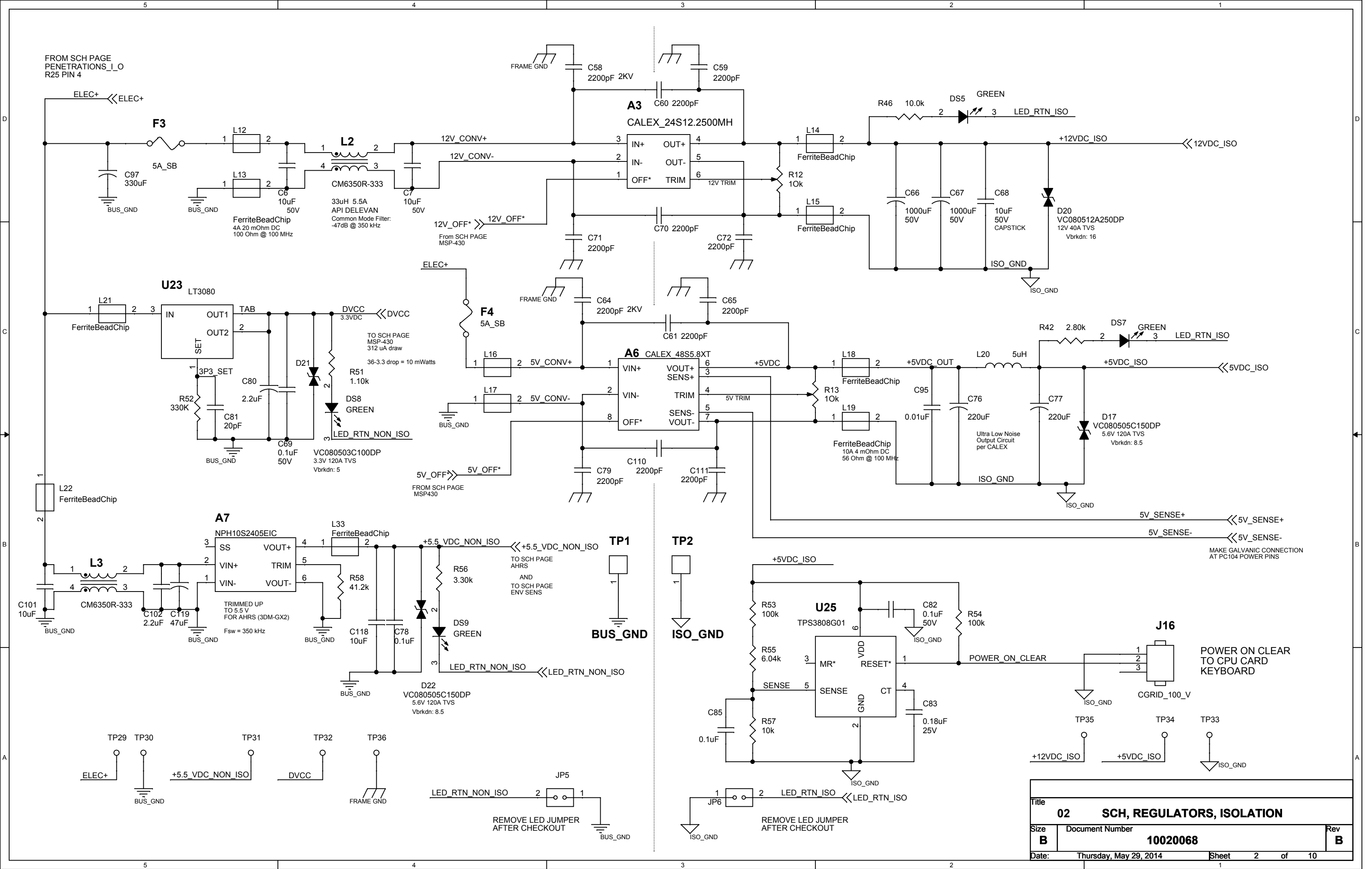
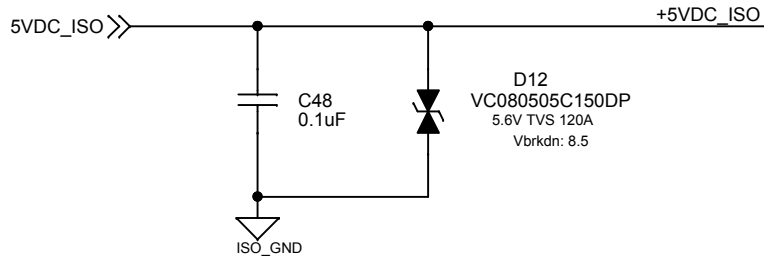






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REGULATORS_ISOLATION



5V TO IRIDIUM CARD

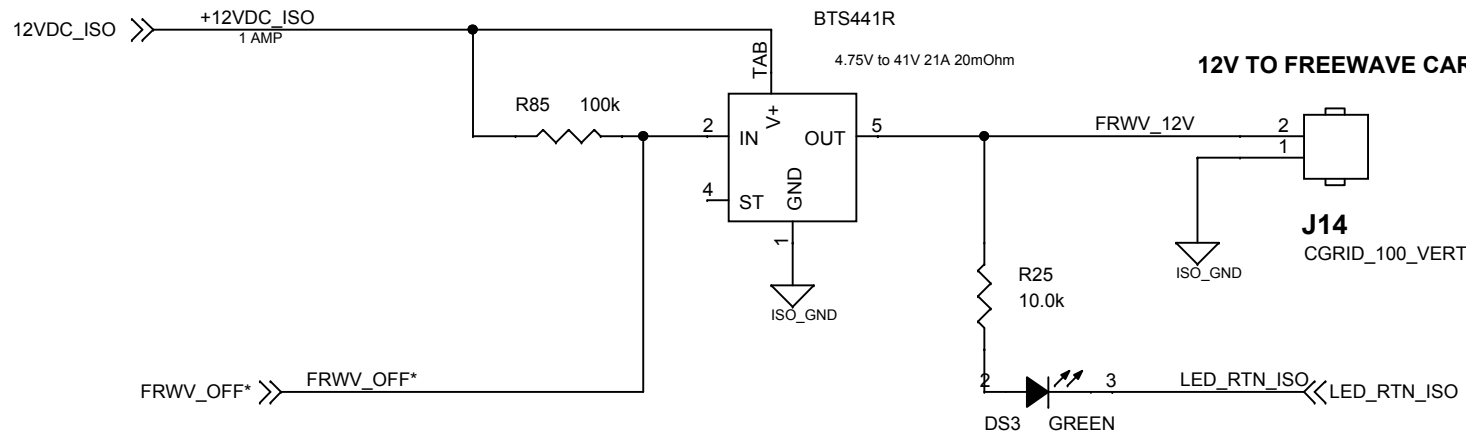
FROM SCH PAGE
BACKUP IRIDIUM PWR



FROM SCH PAGE
REGULATORS_ISOLATION

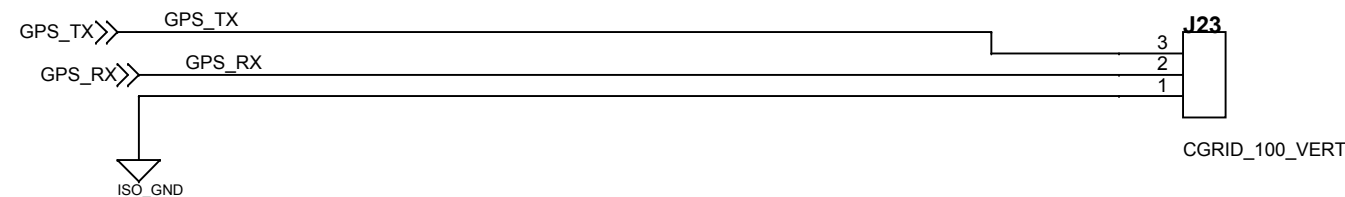
U33
BTS441R
4.75V to 41V 21A 20mOhm

12V TO FREEWAVE CARD



FROM SCH PAGE
MSP430

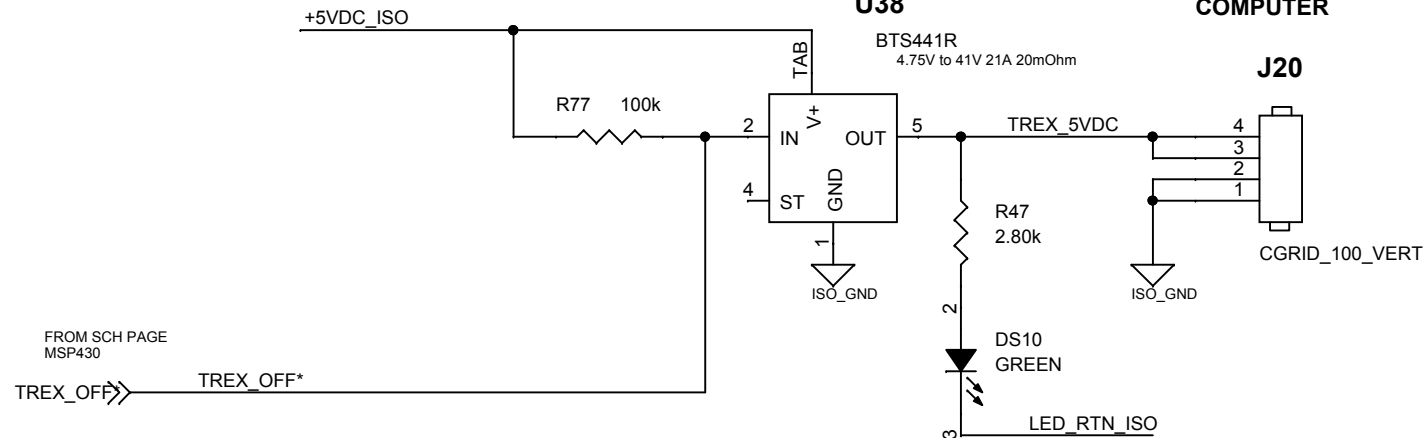
COMMS TO GPS PC104 CARD



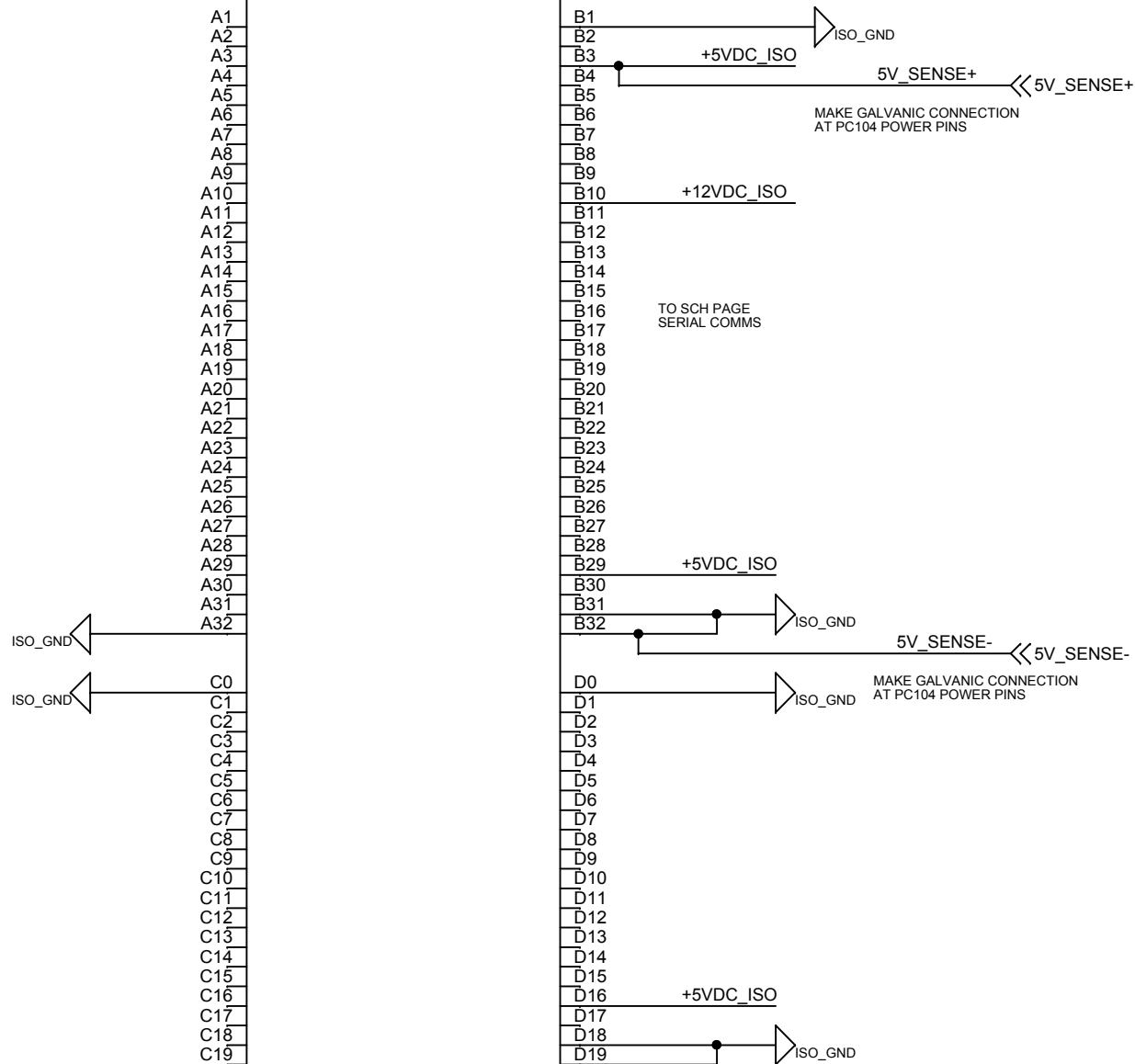
5V TO TREX COMPUTER

FROM SCH PAGE
MSP430

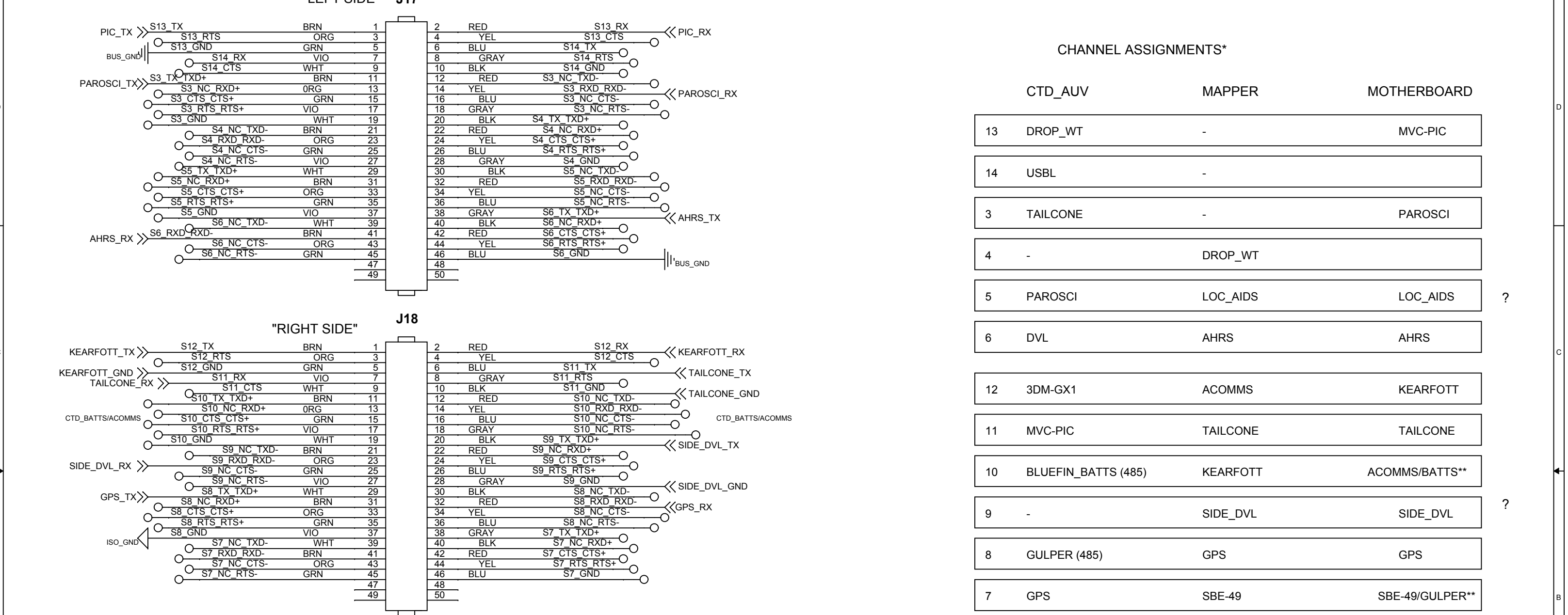
U38
BTS441R
4.75V to 41V 21A 20mOhm



A5 PC104



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04 SCH, PC104		
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CHANNEL ASSIGNMENTS*

CTD_AUV	MAPPER	MOTHERBOARD
13	DROP_WT	MVC-PIC
14	USBL	-
3	TAILCONE	PAROSCI
4	-	DROP_WT
5	PAROSCI	LOC_AIDS
6	DVL	AHRS
12	3DM-GX1	KEARFOTT
11	MVC-PIC	TAILCONE
10	BLUEFIN_BATTS (485)	ACOMMS/BATTS**
9	-	SIDE_DVL
8	GULPER (485)	GPS
7	GPS	SBE-49

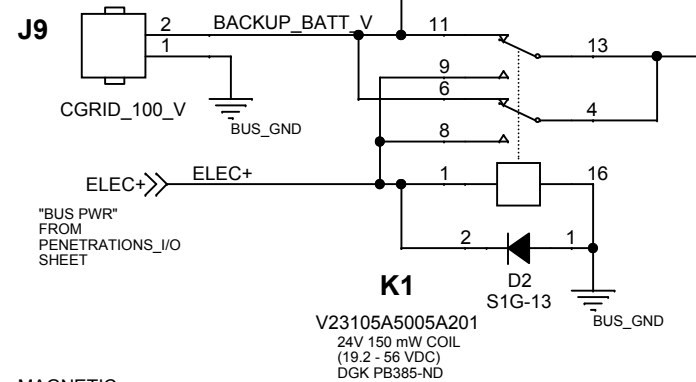
* CHANNEL 1 AND 2 ARE ON THE CPU CARD
** JUMPER SELECTABLE BETWEEN BLUEFIN BATTS AND ACOMMS

COMMS CONNECTIONS TO CONNECT TECH XTREME 104 PCI 12 PORT OPTO

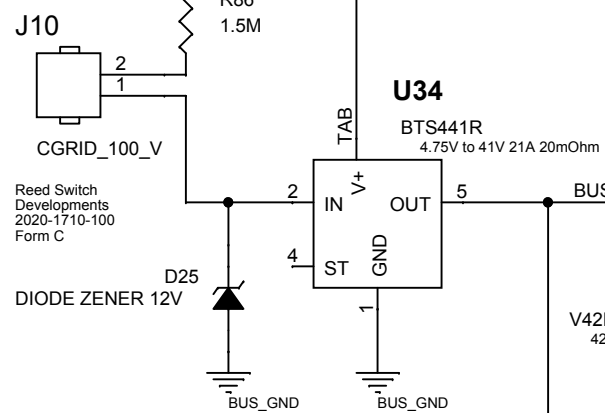
HEADER: DGK MSH50ECT-ND
SOCKET: DGK MSC50K-ND
MULTICOLOR RIBBON CABLE

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05 SCH, SERIAL COMMS		
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STDBY BATTERY
24VDC 19.5 AH
16 D CELLS



MAGNETIC
REED SWITCH
NO MAGNET=
SW CLOSED



BUS_OR_BATT

TO SCH PAGE
DROP WEIGHT
AND
PAROSCI_USBL_STROBE

IRID_GPS_OFF*

FROM SCH PAGE
MSP430

TO SCH PAGE
MSP430

TP37

TP39

F5

5A_SB

FerriteBeadChip
4A 20 mOhm DC
100 Ohm @ 100 MHz

L30

2

BUS_GND

C103
10uF
50V

BUS_GND

C104
10uF

BUS_GND

C105
10uF
50V

BUS_GND

C108
10uF

BUS_GND

C110
10uF
50V

BUS_GND

C113
2200pF

BUS_GND

C116
2200pF

BUS_GND

C117
2200pF

BUS_GND

C120
2200pF

BUS_GND

C123
2200pF

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C126
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C129
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C498
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BUS_GND

C501
2200pF

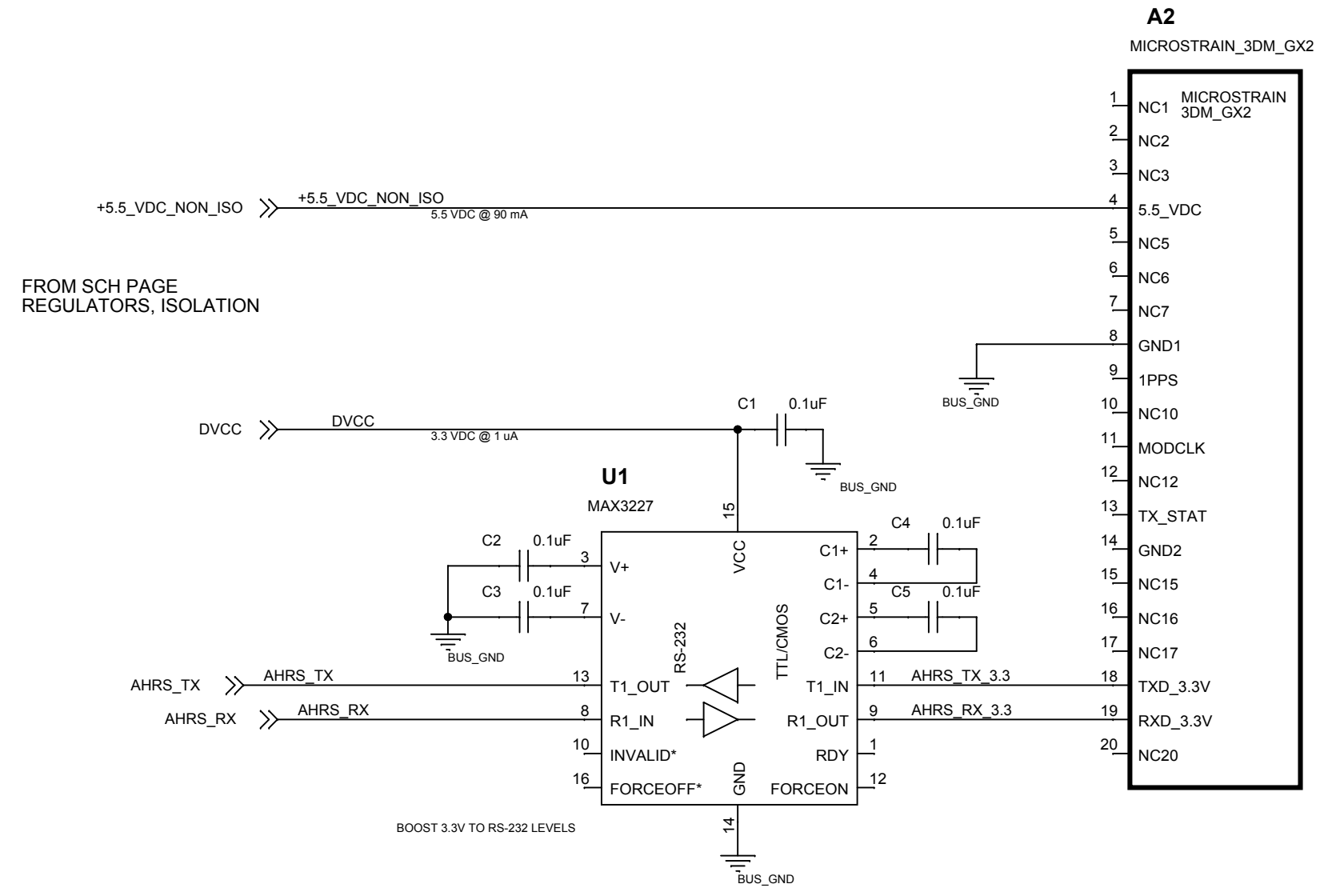
BUS_GND

C504
2200pF

BUS_GND

</

CONSIDER 3DM-GX3-25
5 V SUPPLY
RS232 VIA USB ADAPTOR



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07 SCH, AHRS		
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REGULATORS_ISOLATION
SHEET

+5.5_VDC_NON_ISO

+5.5VDC_NON_ISO

U4

LM35DMX

1 VOUT +VS 8
2 NC1 NC5 7
3 NC2 NC4 6
4 GND NC3 5

4 - 30 VDC
60 uA

BUS_GND

C18
0.1uF
50V

U5

HIH-4000

HUMIDITY
OUT
4 - 5.8 VDC
200 uA

3 2 1

C19
0.1uF
50V
BUS_GND

R75
165 Ohm

D23
PLVA650A,215
5.0 V ZENER
250 mW
PLVA650A,215
NXP
DGK 568-6471-A-ND

BUS_GND

U36

HSCMRNN015PAA5

1 NC1 NC8 8
2 V+ NC7 7
3 OUT NC6 6
4 GND NC5 5

BUS_GND

HSCMRNN015PAAA5
0-15 PSIA
5V 3mA
ANALOG OUT

PRESSURE

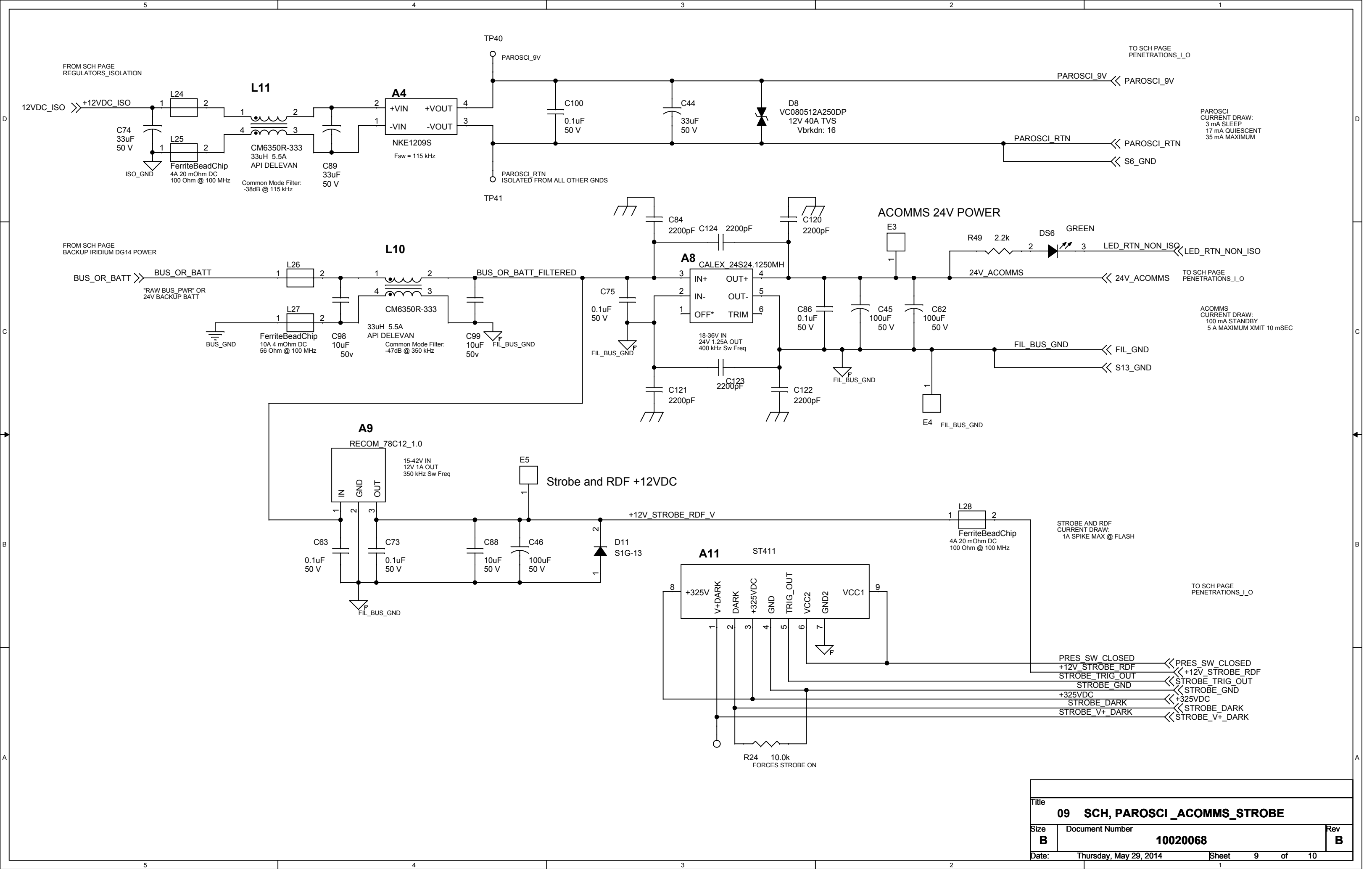
PRESSURE

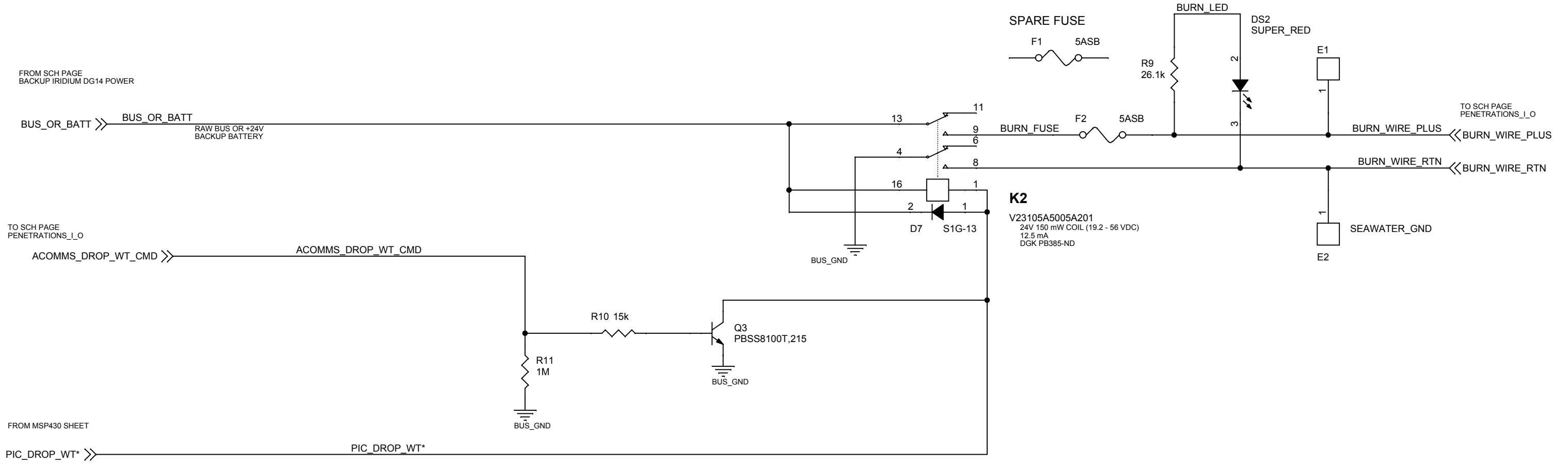
HUMIDITY

TEMP

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MSP430

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08 SCH, ENVIRONMENTAL SENSING		
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10 SCH, DROP WEIGHT		
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