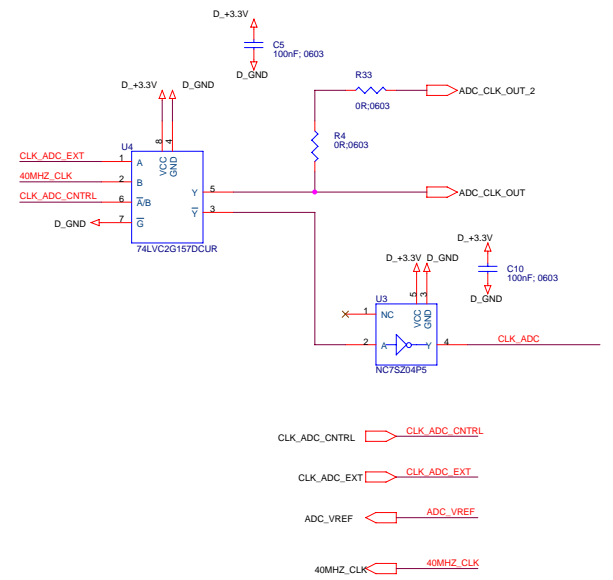
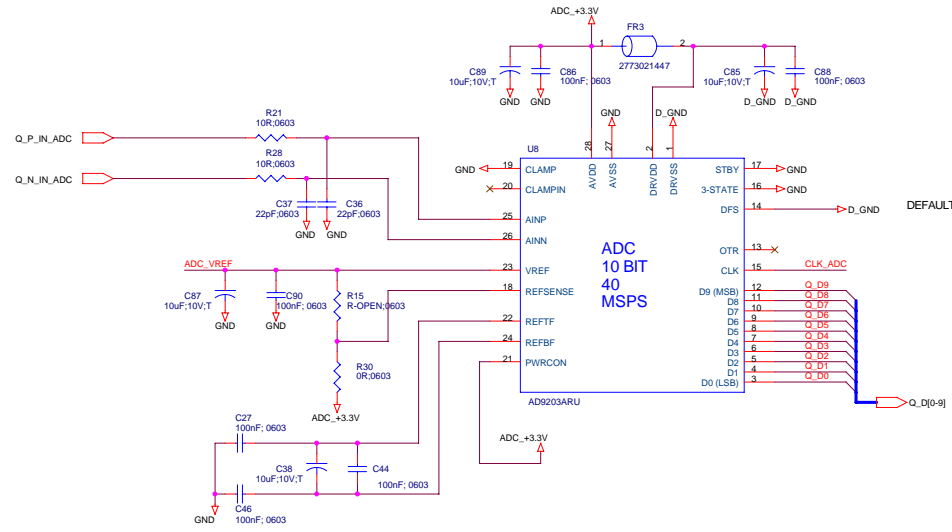
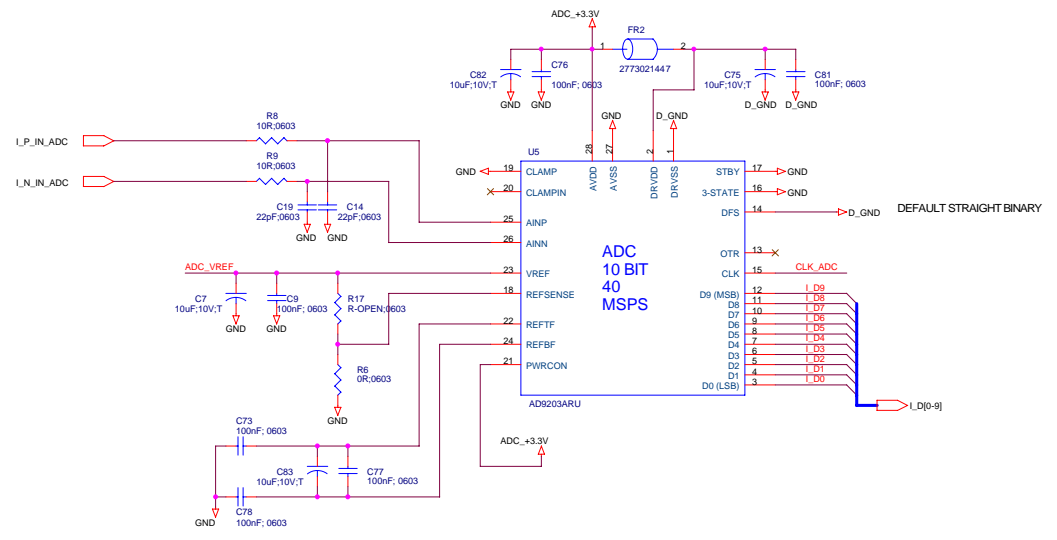


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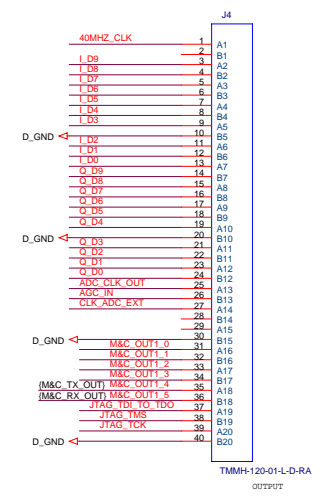
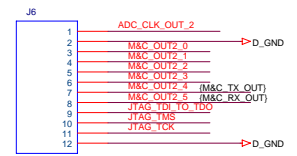
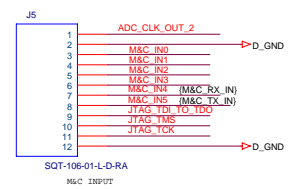
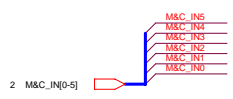
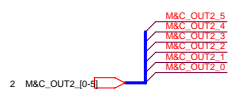
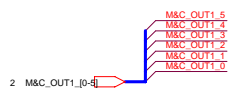
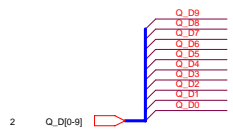
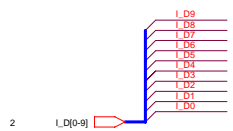
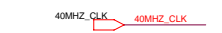


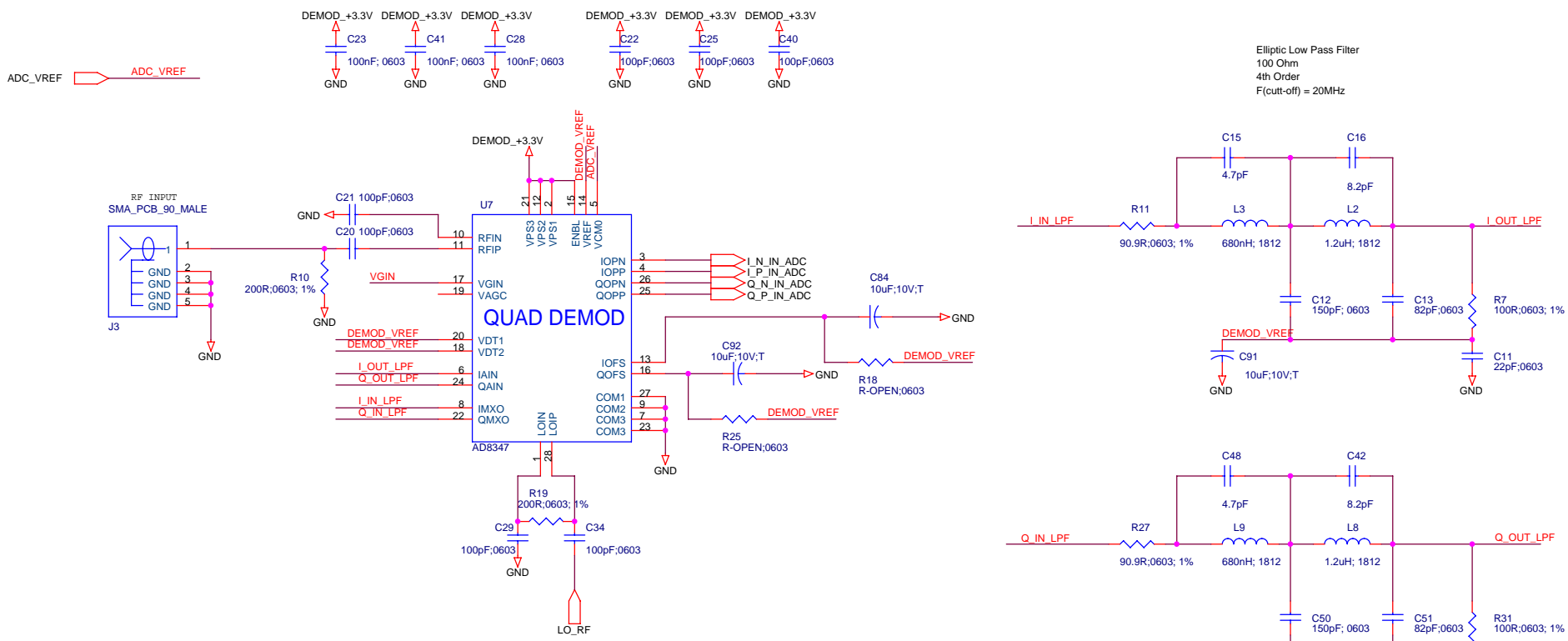
CLK_ADC_CNTRL → **CLK_ADC_CNTRL**
 CLK_ADC_EXT → **CLK_ADC_EXT**
 ADC_VREF → **ADC_VREF**
 40MHZ_CLK → **40MHZ_CLK**



I_P_IN_ADC → **TP1**
 TP_SMALL
 Q_P_IN_ADC → **TP2**
 TP_SMALL

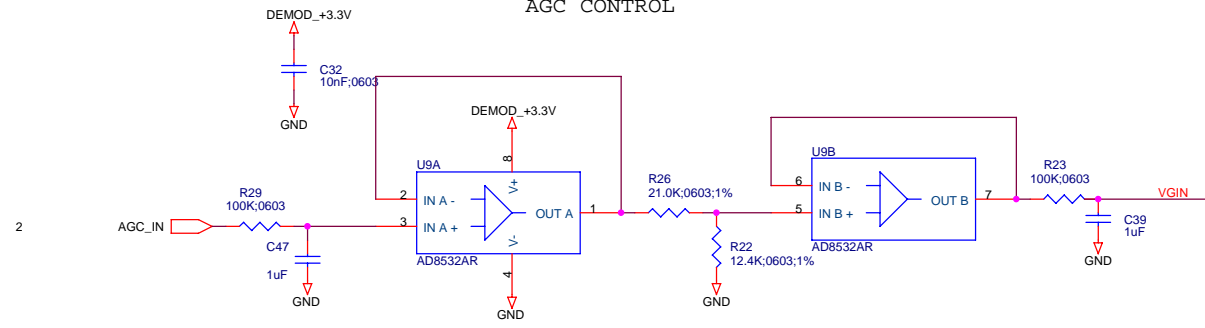
Mobile Satellite Services	
Michael J. Yoha 18221A Flower Hill Way Cathersburg, MD 20879 USA	
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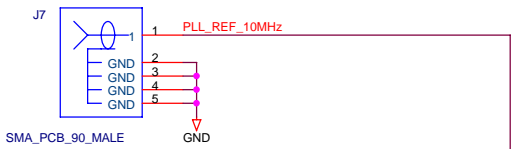
Elliptic Low Pass Filter
 100 Ohm
 4th Order
 F(cut-off) = 20MHz

EXTERNAL AGC CONTROL



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**EXTERNAL
FREQUENCY
REFERENCE**



CLK_ON_OFF_+3.3V

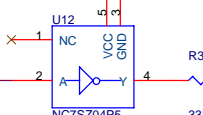
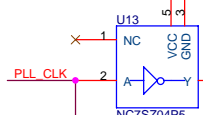


CLK_ON_OFF_+3.3V



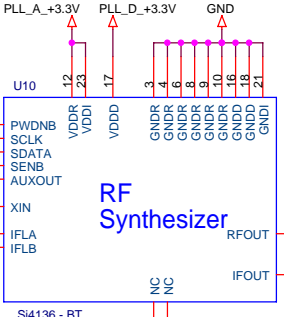
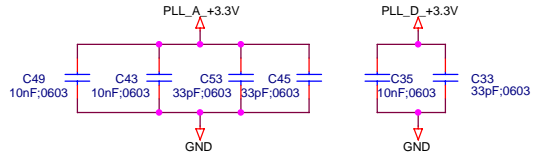
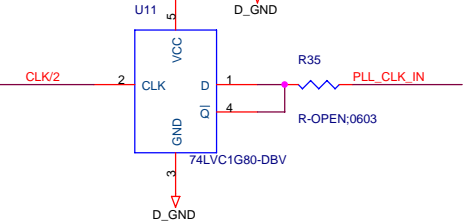
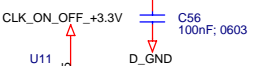
CLK_ON_OFF_+3.3V

CLK_ON_OFF_+3.3V



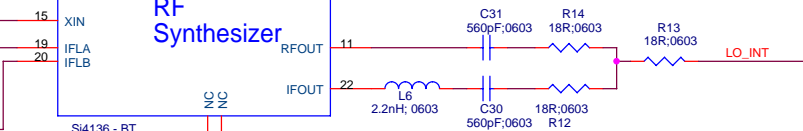
**CLOCK DIVID BY 2
40MHz IN -- 20MHz OUT**

CLK_ON_OFF_+3.3V

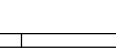
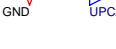
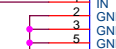
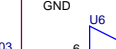


**LEVEL FROM MIXER:
RF Typ.: -3dBm**

**POWER COMBINER
GAIN = -6dB**

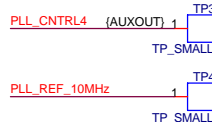
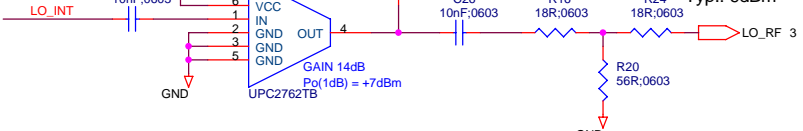


DEMOD_+3.3V



**LEVEL TO RF Mod.:
Typ.: -9dBm**

**ATTENUATER
GAIN = -6dB**



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4 CLK_ADC_CNTRL ← CLK_ADC_CNTRL

4 INT_CLK_ON_OFF ← INT_CLK_ON_OFF

2 M&C_OUT1_[0-4] ←

- M&C_OUT1_5
- M&C_OUT1_4
- M&C_OUT1_3
- M&C_OUT1_2
- M&C_OUT1_1
- M&C_OUT1_0

2 M&C_OUT2_[0-4] ←

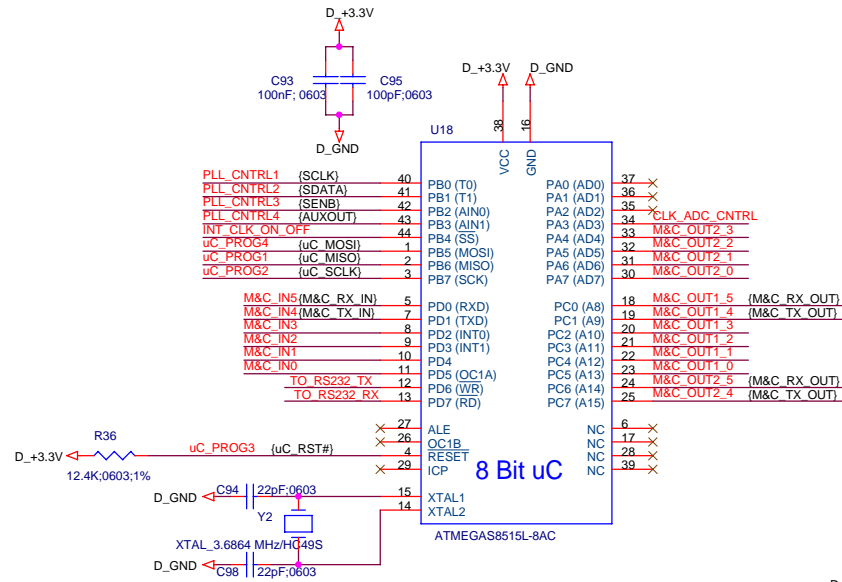
- M&C_OUT2_5
- M&C_OUT2_4
- M&C_OUT2_3
- M&C_OUT2_2
- M&C_OUT2_1
- M&C_OUT2_0

2 M&C_IN_[0-5] ←

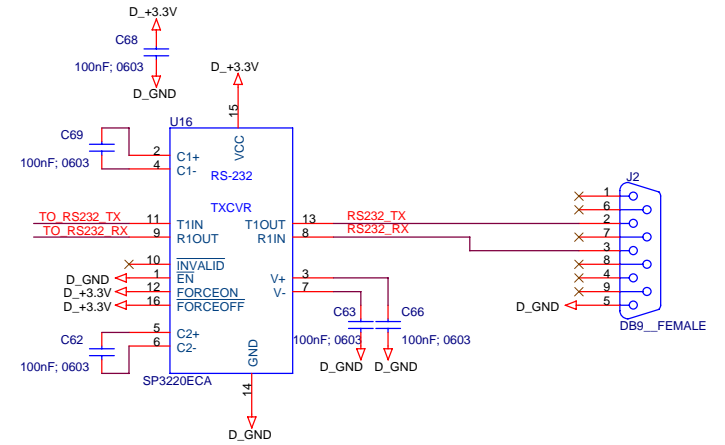
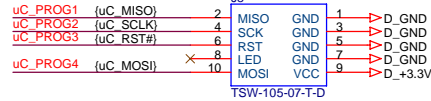
- M&C_IN5
- M&C_IN4
- M&C_IN3
- M&C_IN2
- M&C_IN1
- M&C_IN0

2 PLL_CNTRL[1-4] ←

- PLL_CNTRL1 (SCLK)
- PLL_CNTRL2 (SDATA)
- PLL_CNTRL3 (SENB)
- PLL_CNTRL4 (AUXOUT)



IN CIRCUIT PROGRAMMING HEADER



Mobile Satellite Services

Michael J. Yoha
18221A Flower Hill Way
Gaithersburg, MD 20879
USA

Title
ComBlock RX / MICRO

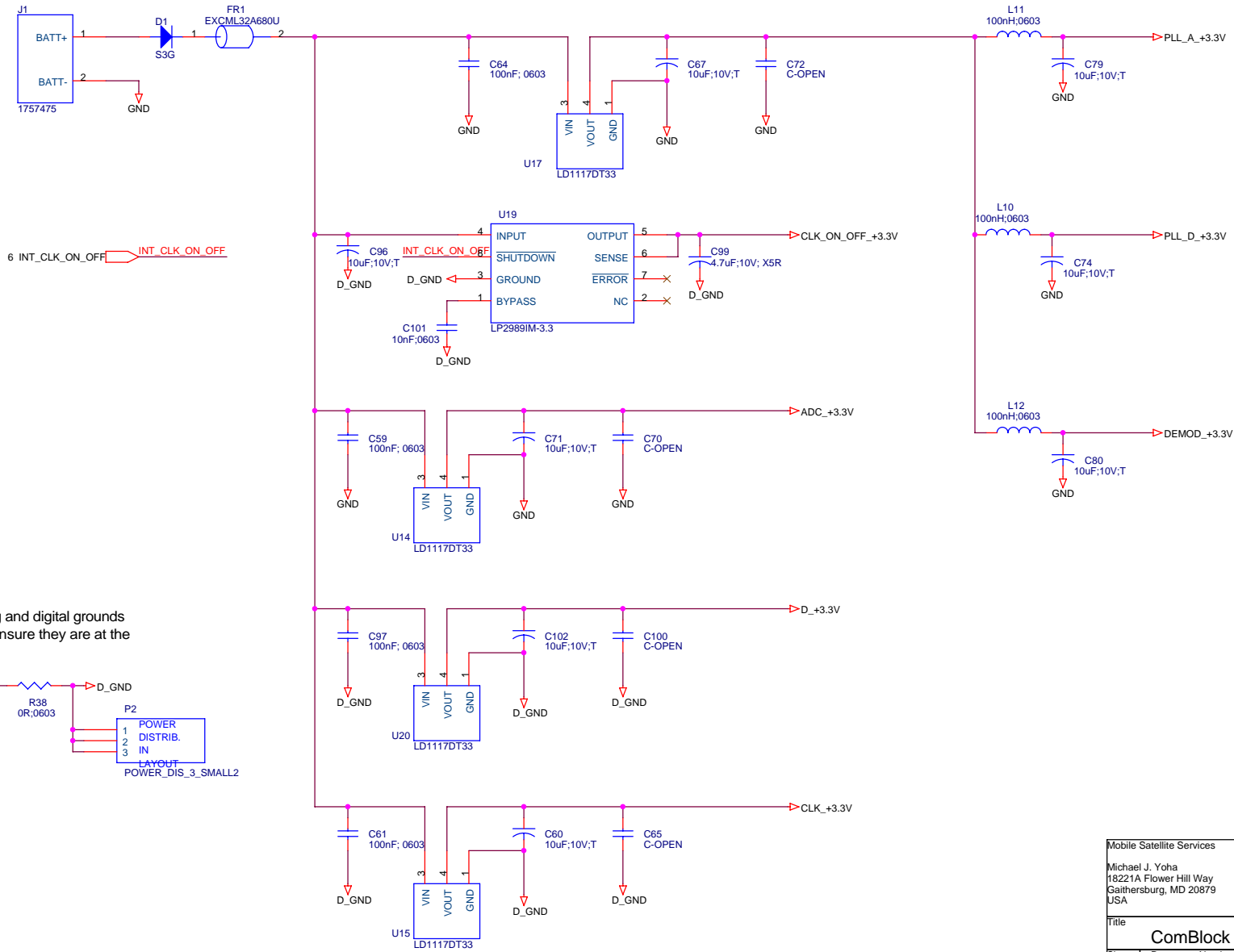
Size B Document Number
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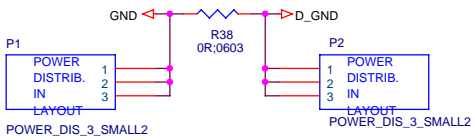
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+5 V Supply



Connect analog and digital grounds in one place to insure they are at the same potential



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