

COMMUNICATION SUBSYSTEM MAIN BOARD

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Inductor parameters labeled in schematics: Name, Tolerance, Value, DC Current, Saturation Current, Max DC Resistance

Resistor parameters labeled in schematics: Name, Tolerance, Value, Power

Capacitor parameters labeled in schematics: Name, Value, Tolerance, Voltage Rating

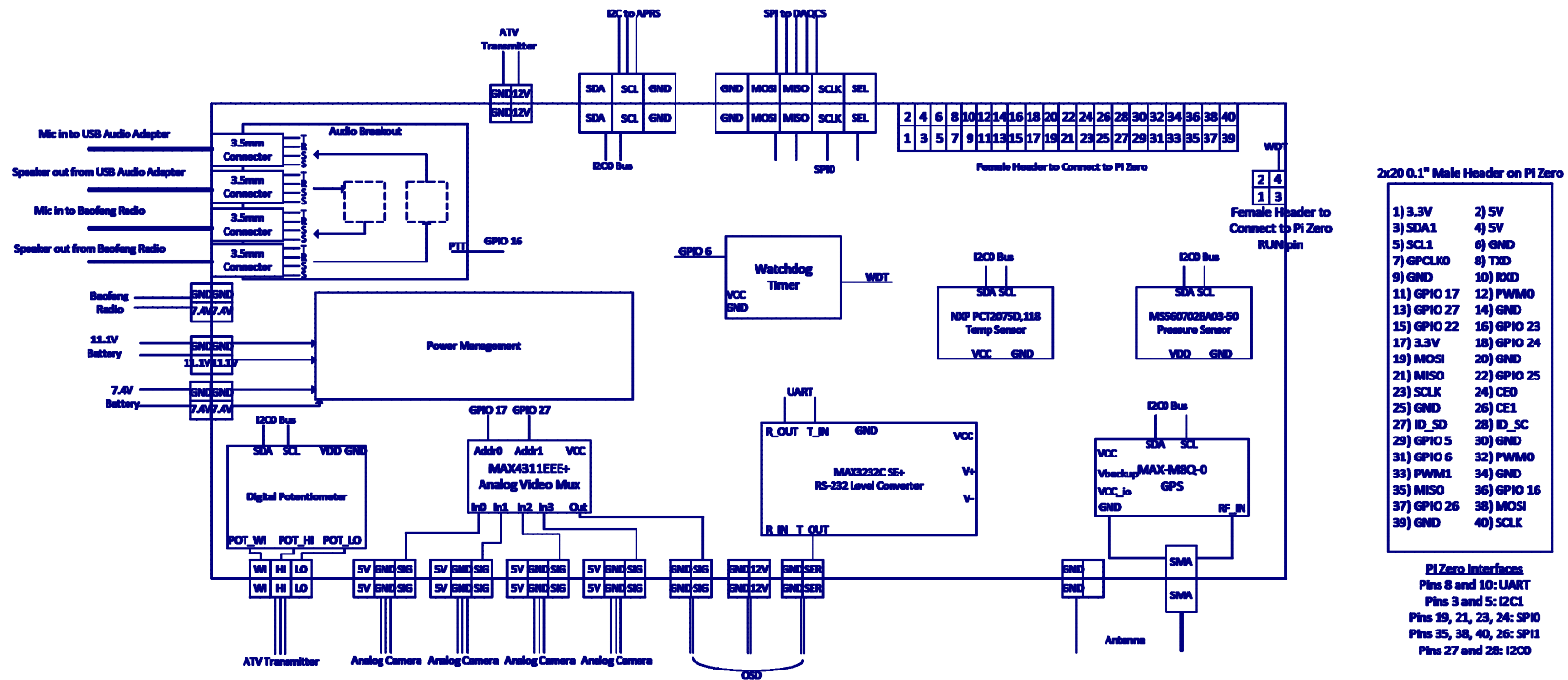
Title Page and TOC

Comms_Main

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COMMS Custom PCB Block Diagram



NOTE: See next page for a block diagram of the Power Management portion

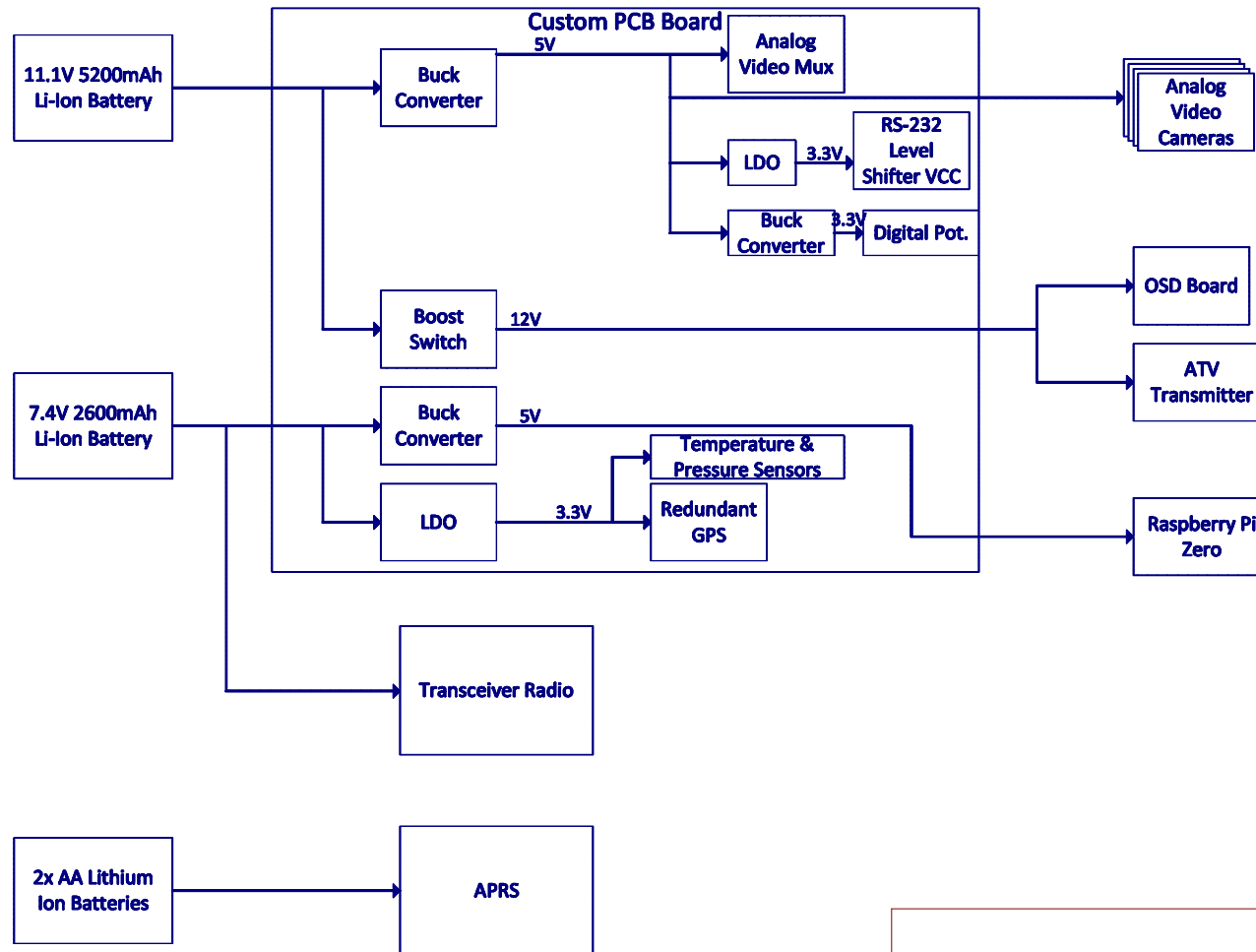
Main Block Diagram

Comms_Main

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Communication Subsystem Power Management



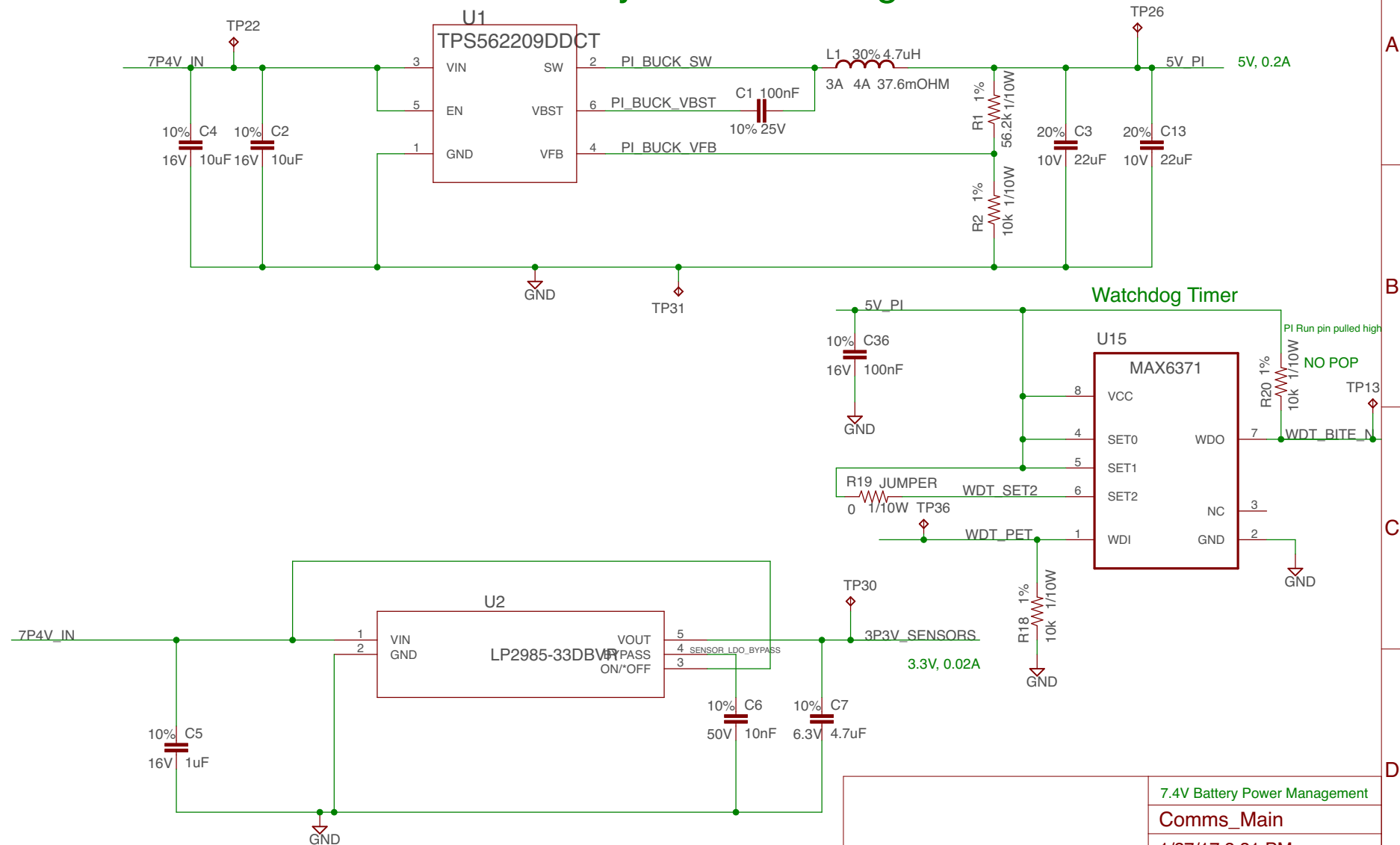
Power Block Diagram

Comms_Main

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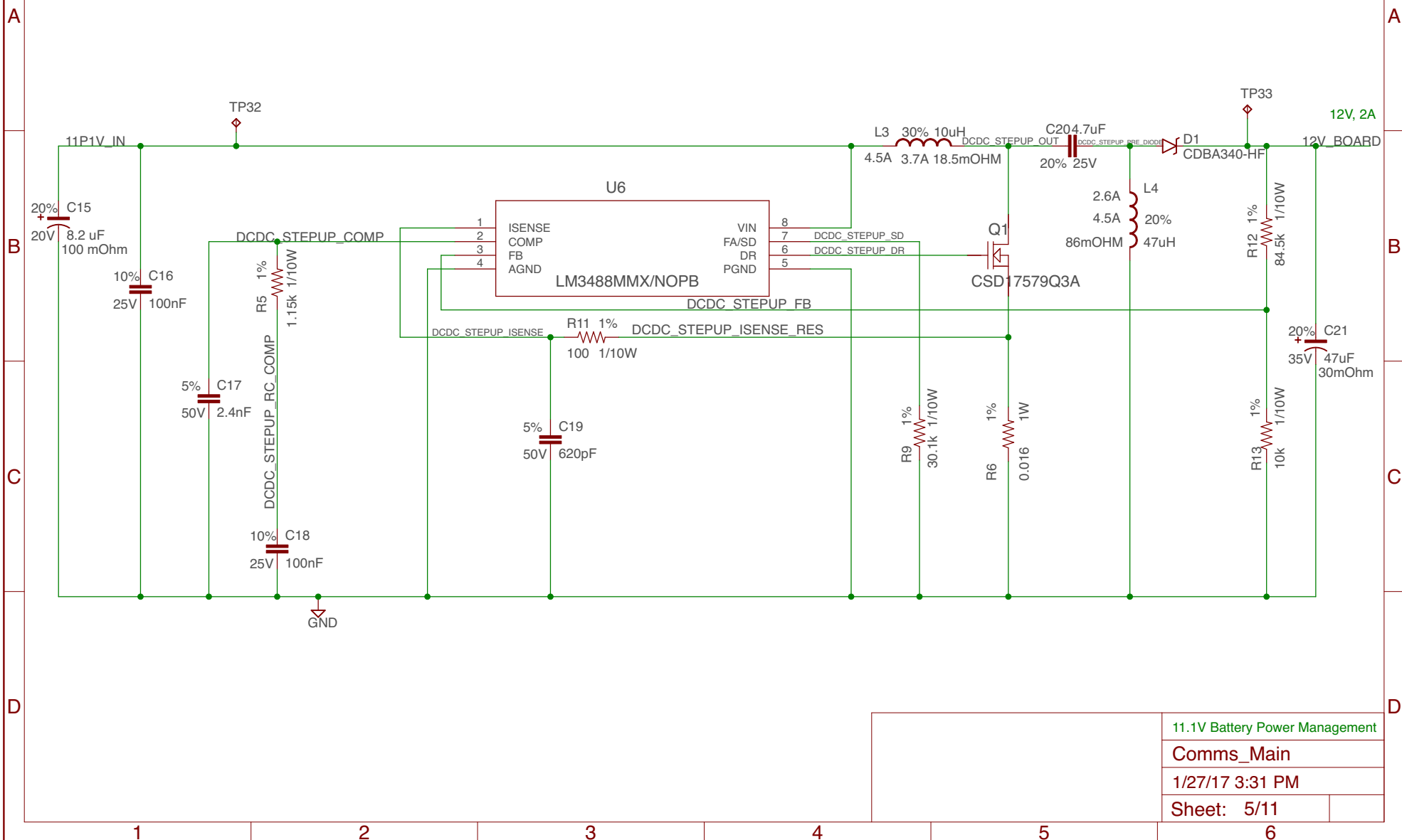
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COMMS 7.4V Battery Power Management

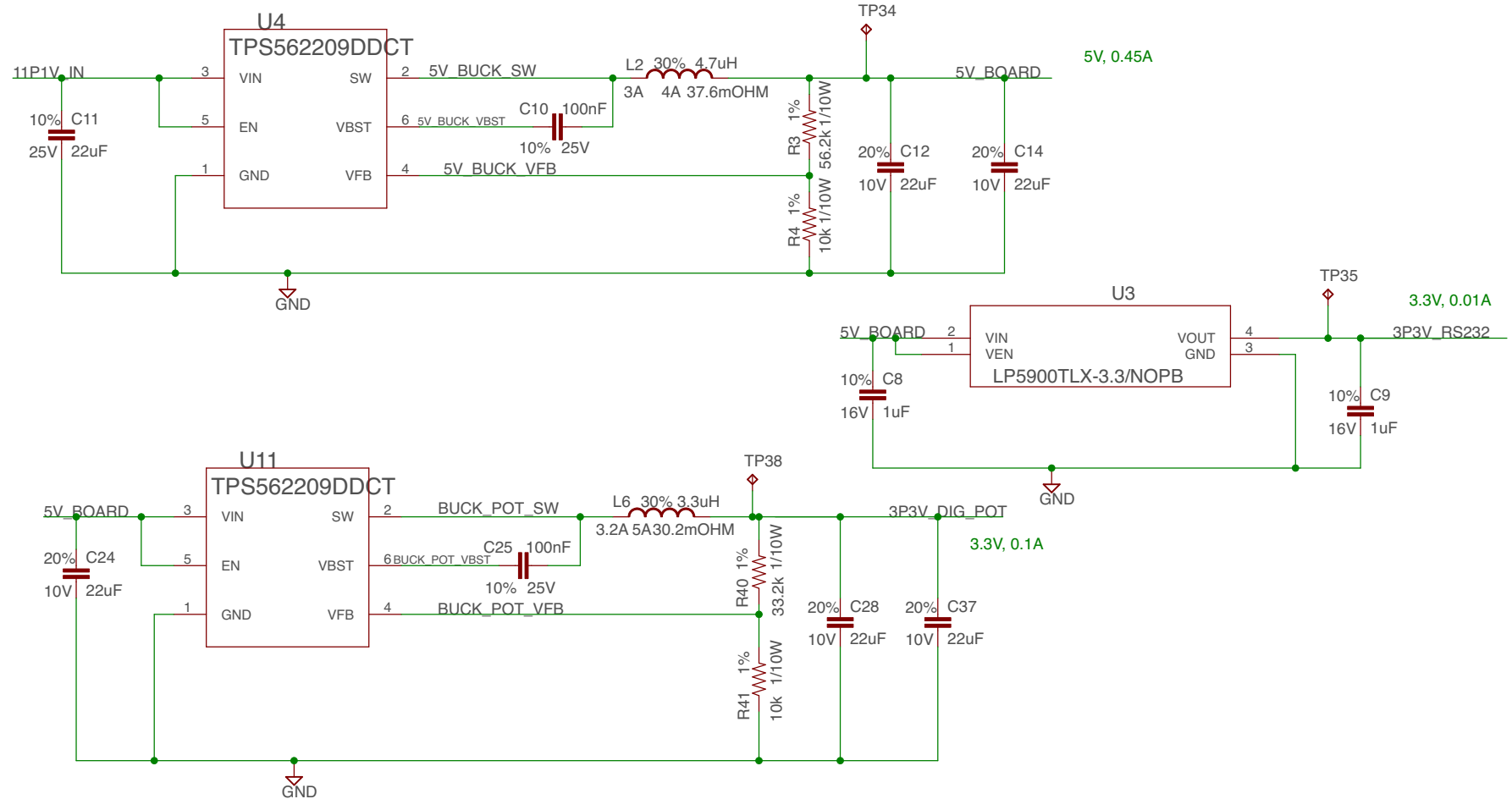


7.4V Battery Power Management
Comms_Main
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COMMS 11.1V Battery Power Management



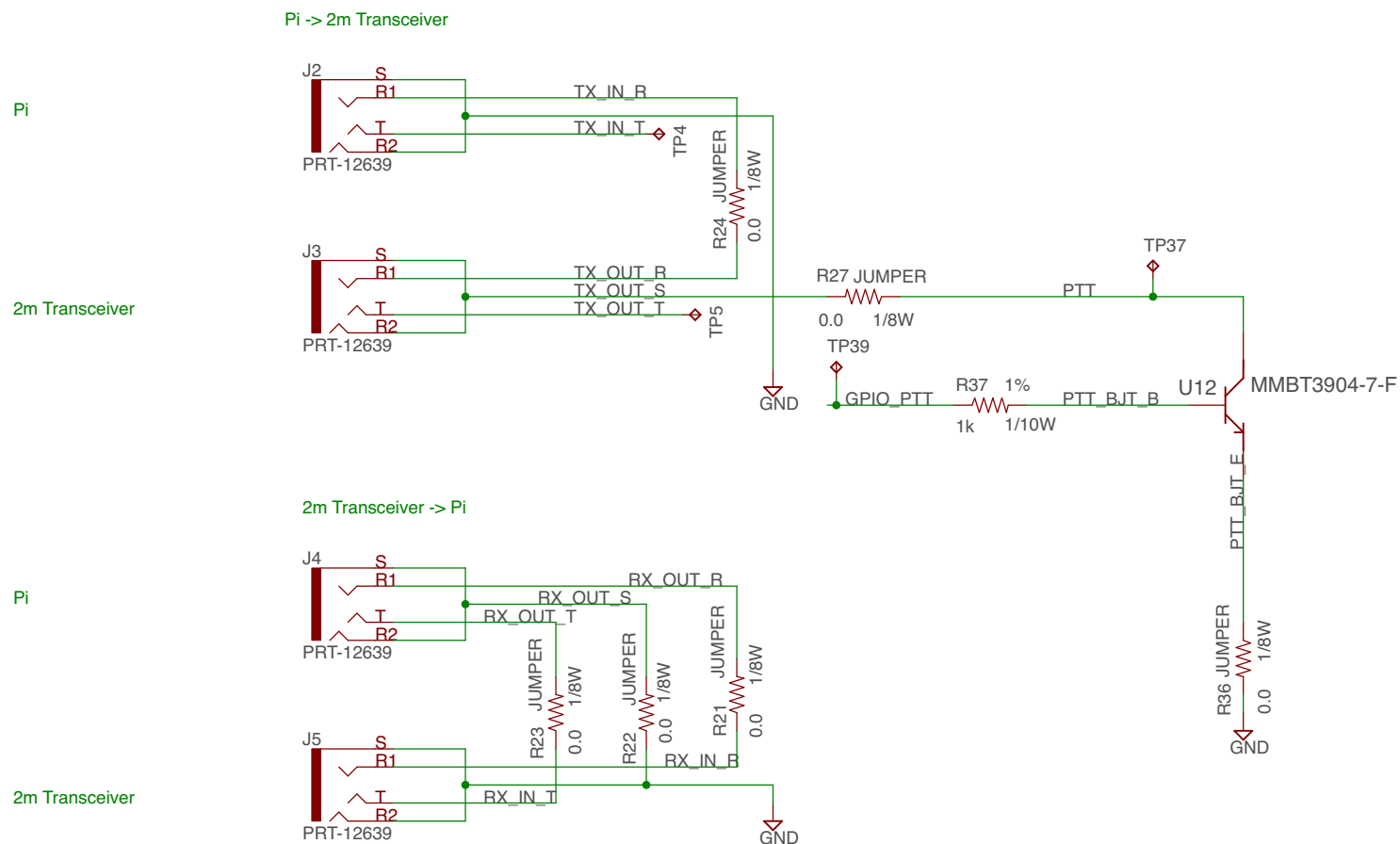
COMMS 11.1V Battery Power Management



11.1V Battery Power Management
Comms_Main
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[illegible]

COMMS 2m Transceiver Audio Jumpers

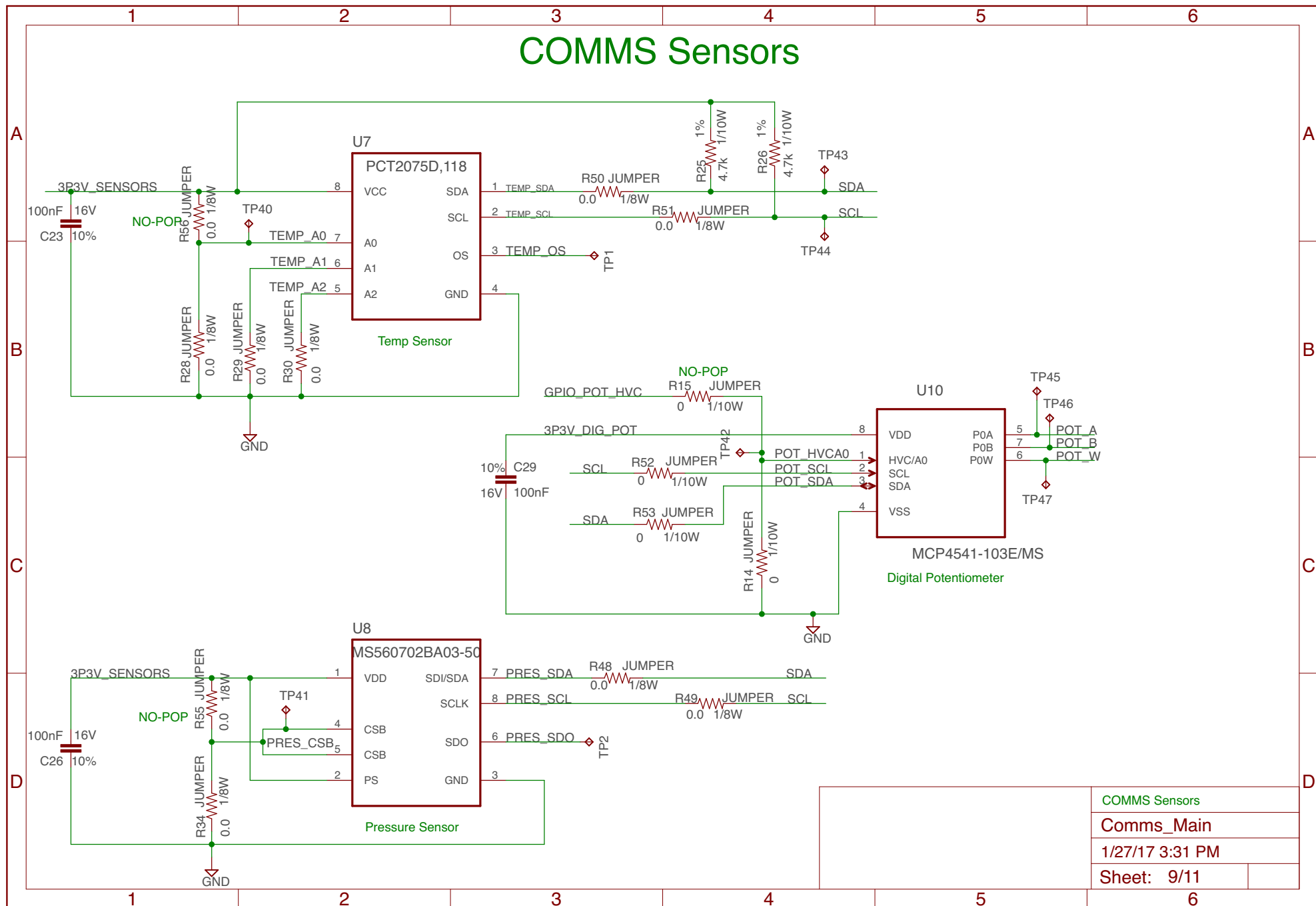


Transceiver Audio Jumpers

Comms_Main

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COMMS Video

Analog Video Mux

5V_BOARD

10% C35 25V 100nF

R42 1% 75 1/10W

R43 1% 75 1/10W

R44 1% 75 1/10W

R45 1% 75 1/10W

VID_IN0

VID_IN1

VID_IN2

VID_IN3

GPIO_MUX_ADDR0

GPIO_MUX_ADDR1

TP54

TP55

U14N1 MAX4311

VCC

IN0

IN1

IN2

IN3

A0

A1

VEE

SD

OUT

FB

MUX_OUT

MUX_FB

R46 JUMPER 1/10W

R47 JUMPER 1/10W

NO-POP

R54 1% 75 1/10W

VID_OUT

GND

RS-232 Level Converter

3P3V_RS232

10% C32 25V 100nF

TP48

UART_TXD

U13 MAX3232CSE+

C1+

C1-

C2+

C2-

VCC

V+

V-

RS232_V+

RS232_V-

OSD_DATA

TP49

10% C34 25V 100nF

10% C33 25V 100nF

10% C30 25V 100nF

10% C31 25V 100nF

RS232_C1+

RS232_C1-

RS232_C2+

RS232_C2-

T1IN

T2IN

R1OUT

R2OUT

T1OUT

T2OUT

R1IN

R2IN

GND

