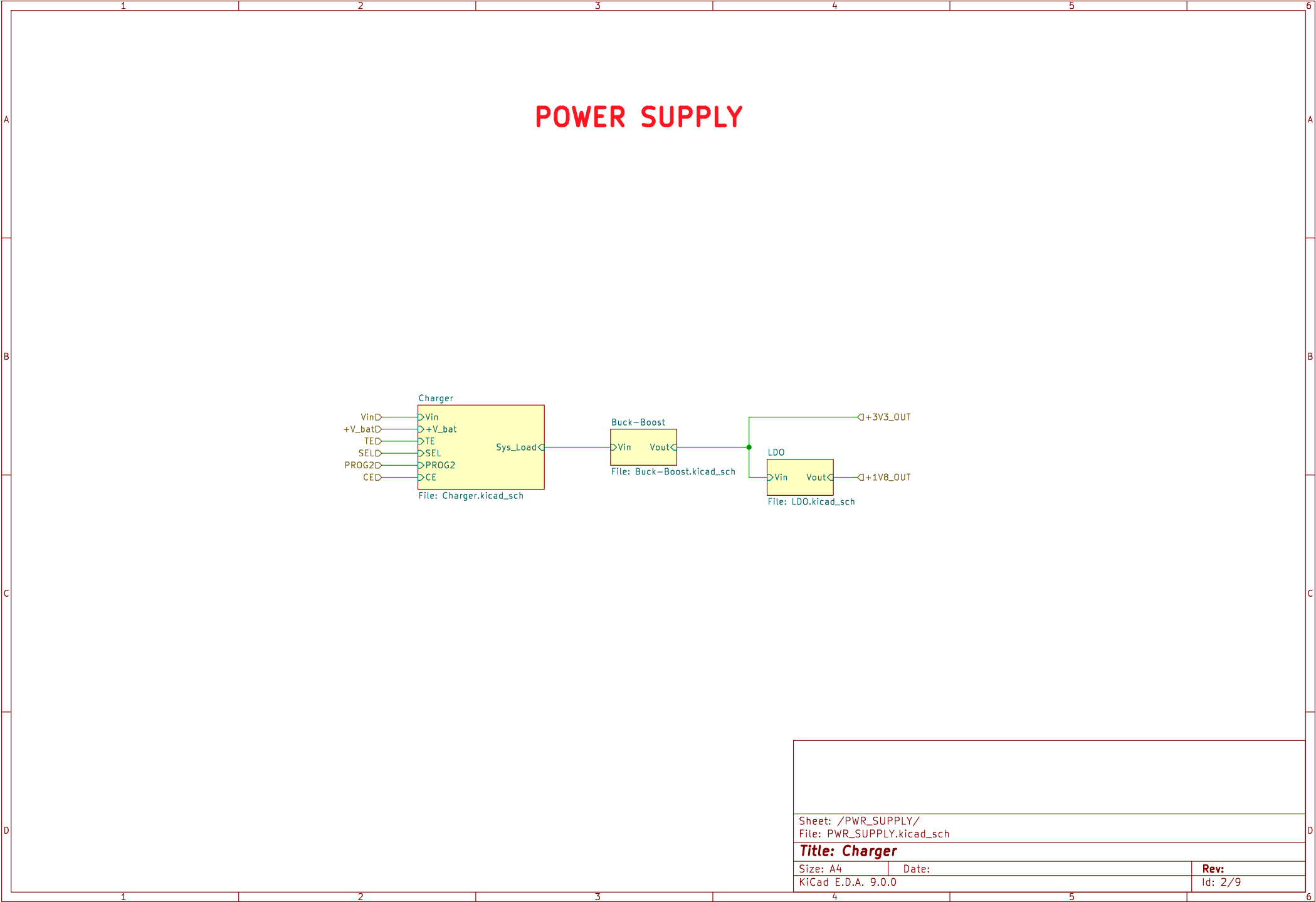


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**Charger**

The schematic diagram illustrates a USB-to-serial charger circuit centered around the MCP73871 IC (U5). The circuit is powered by a USB input (VinD) connected to the IN pin (18) of the IC. A 10uF capacitor (C9) is connected to the input. The IC's VCC pin (2) is connected to the input, and its PG pin (6) is connected to the input through a 470R resistor (R7). The IC's STAT2 pin (7) is connected to the input through a 470R resistor (R6). The IC's STAT1/LB0 pin (8) is connected to the input through a 470R resistor (R5). The IC's SEL pin (3) is connected to the input. The IC's PROG2 pin (4) is connected to the input. The IC's TE pin (9) is connected to the input. The IC's CE pin (17) is connected to the input. The IC's OUT pin (1) is connected to the output (GDSys\_Load). The IC's VBAT pin (14) is connected to the output through a 4.7uF capacitor (C8). The IC's THERM pin (5) is connected to the output through a 10k resistor (TH1). The IC's PROG1 pin (13) is connected to the output through a 10k resistor (R3). The IC's PROG3 pin (12) is connected to the output through a 10k resistor (R4). The IC's VSS pin (10) is connected to ground. The output is connected to a USB output (GDSys\_Load) through a 4.7uF capacitor (C7). The output is also connected to a USB output (GDSys\_Load) through a 4.7uF capacitor (C8).

Sheet: /PWR\_SUPPLY/Charger/  
File: Charger.kicad\_sch

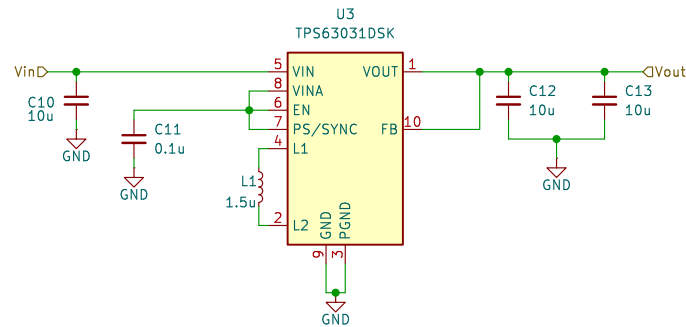
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<b>Title: Charger</b>		
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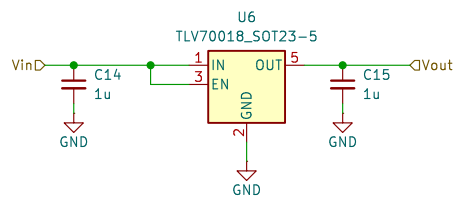
# Buck-Boost



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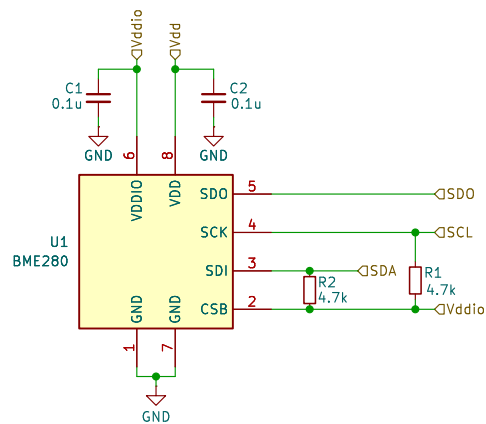
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LDO



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KiCad E.D.A. 9.0.0	Id: 5/9	

# Temp Sensor



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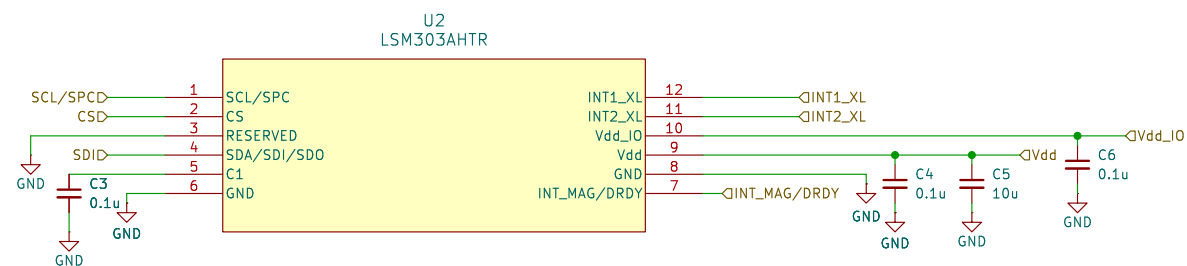
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# Accelerometer Magnetometer



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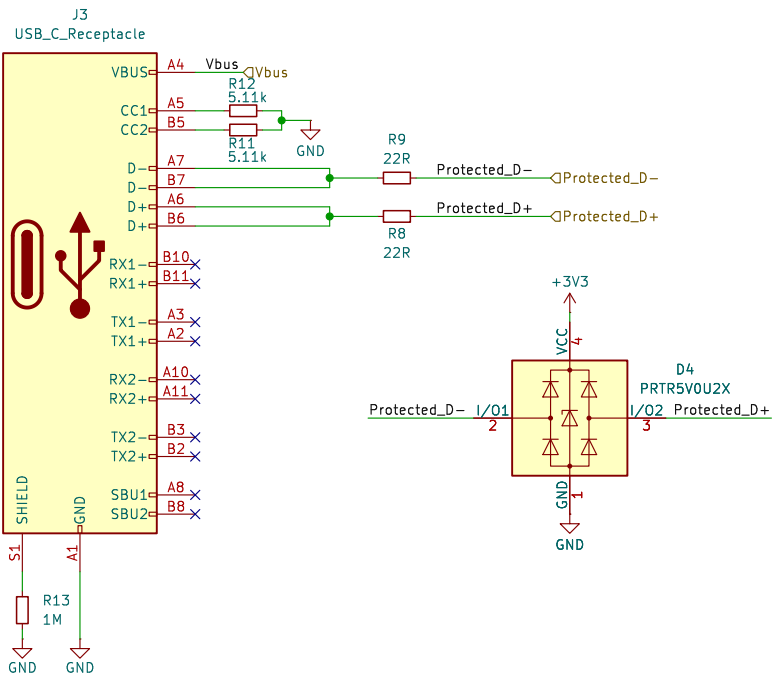
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# USB Type C



Sheet: /usb-c/  
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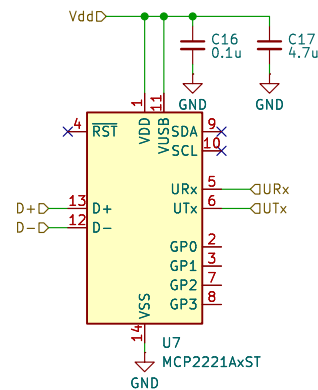
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# USB to Serial



Sheet: /USB\_to\_Serial/  
File: USB\_to\_Serial.kicad\_sch

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