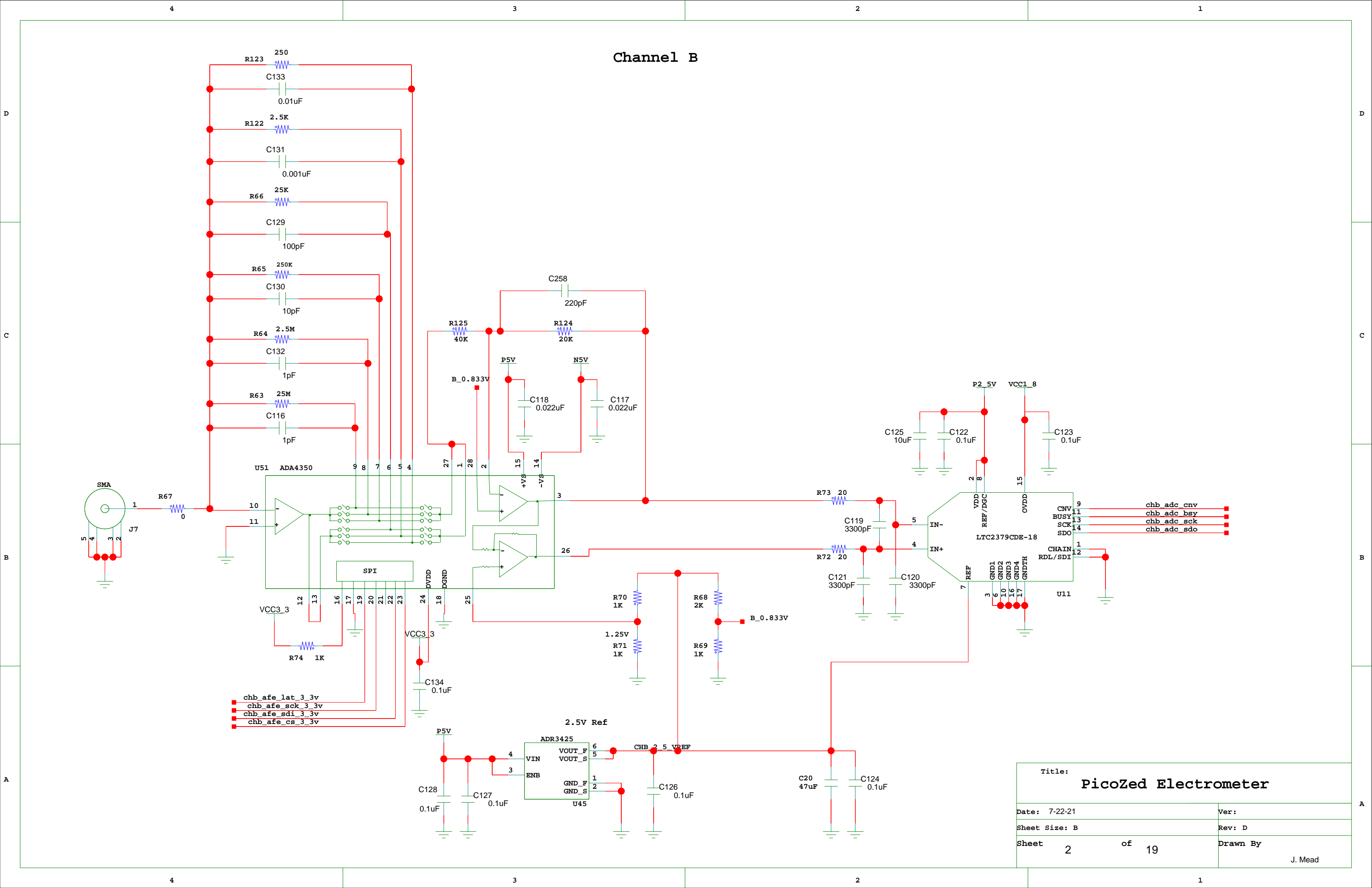


Channel A

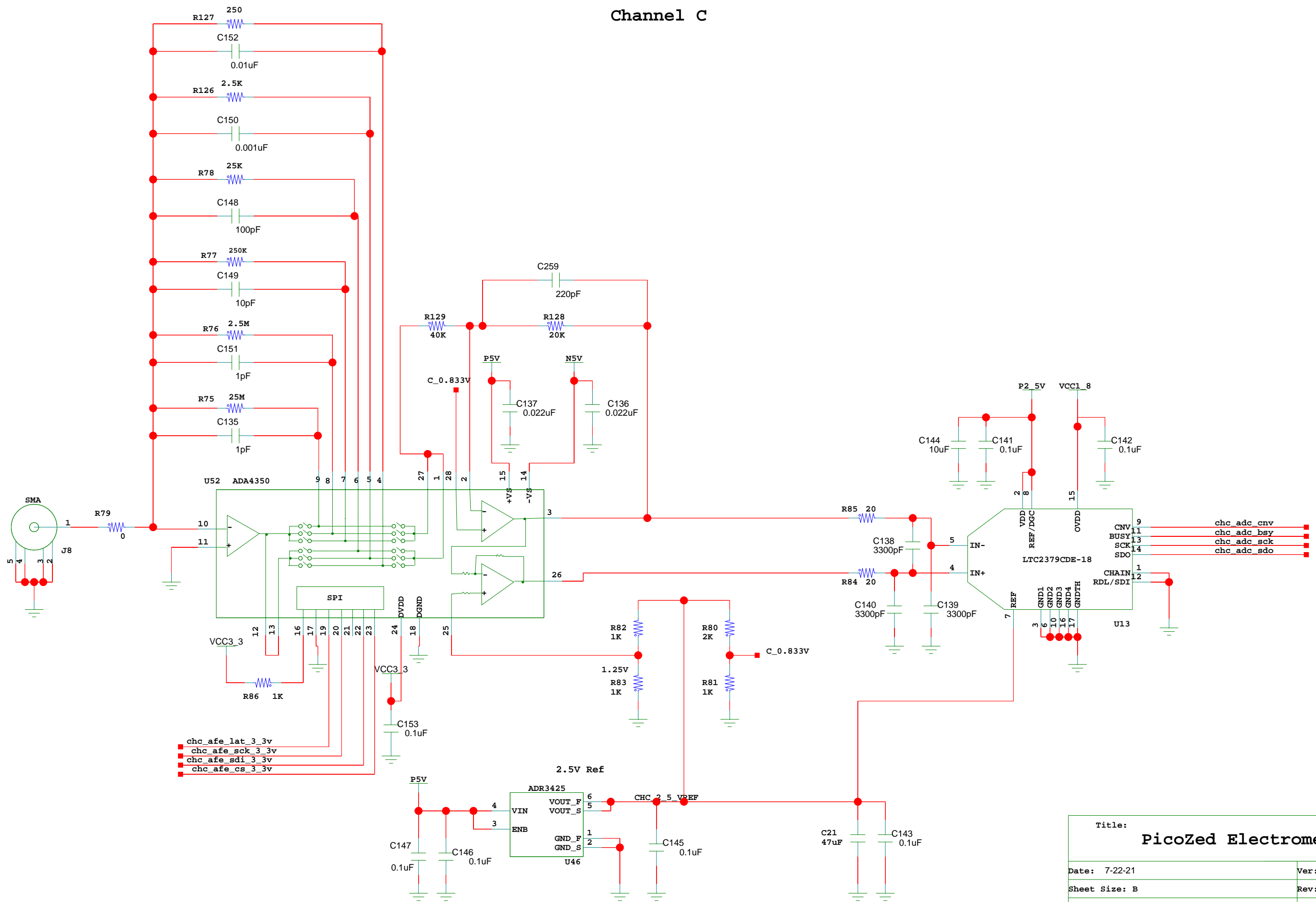
Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 1 of 19	Drawn By J. Mead



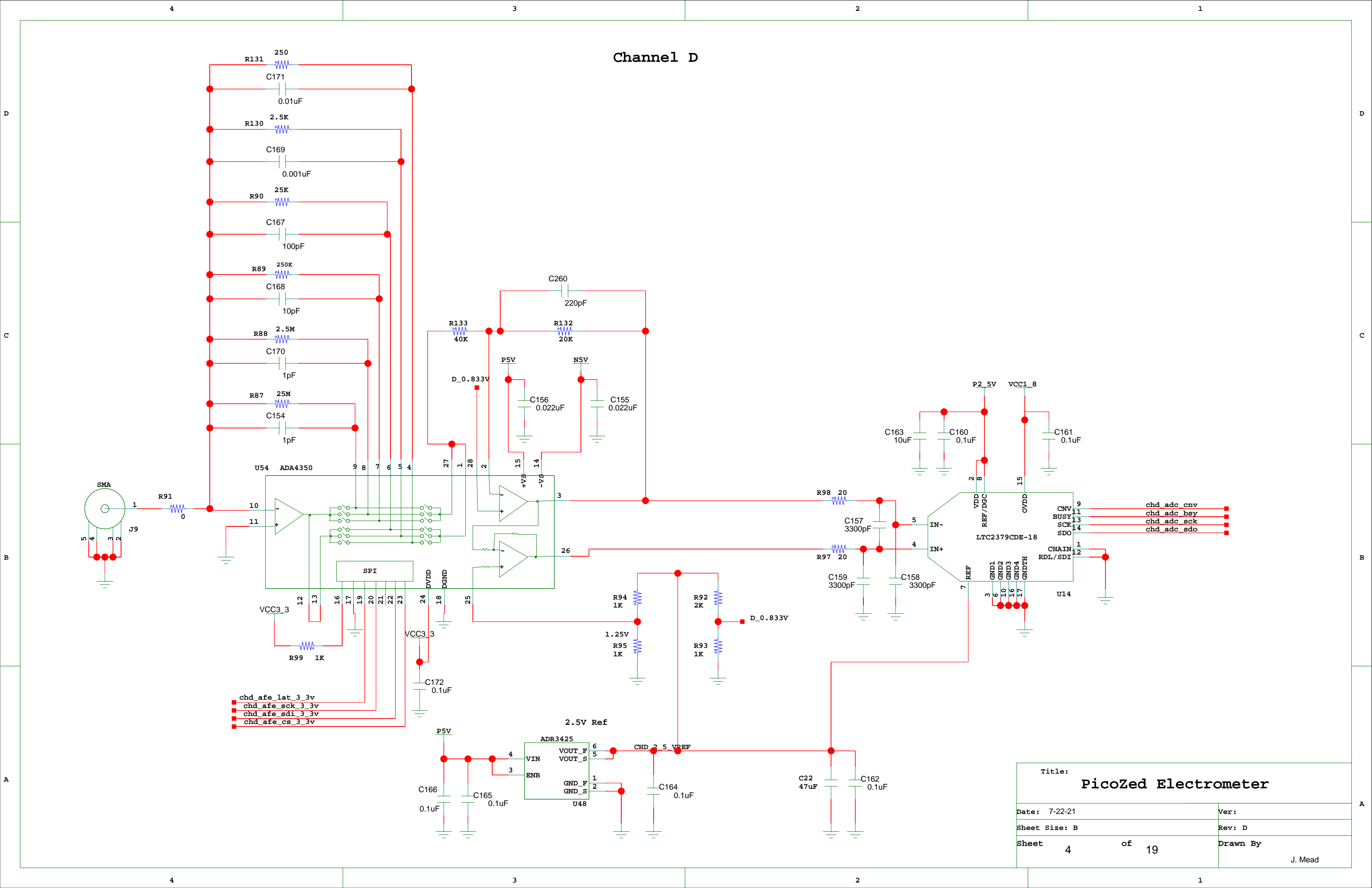
Channel B

Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 2 of 19	Drawn By J. Mead

Channel C

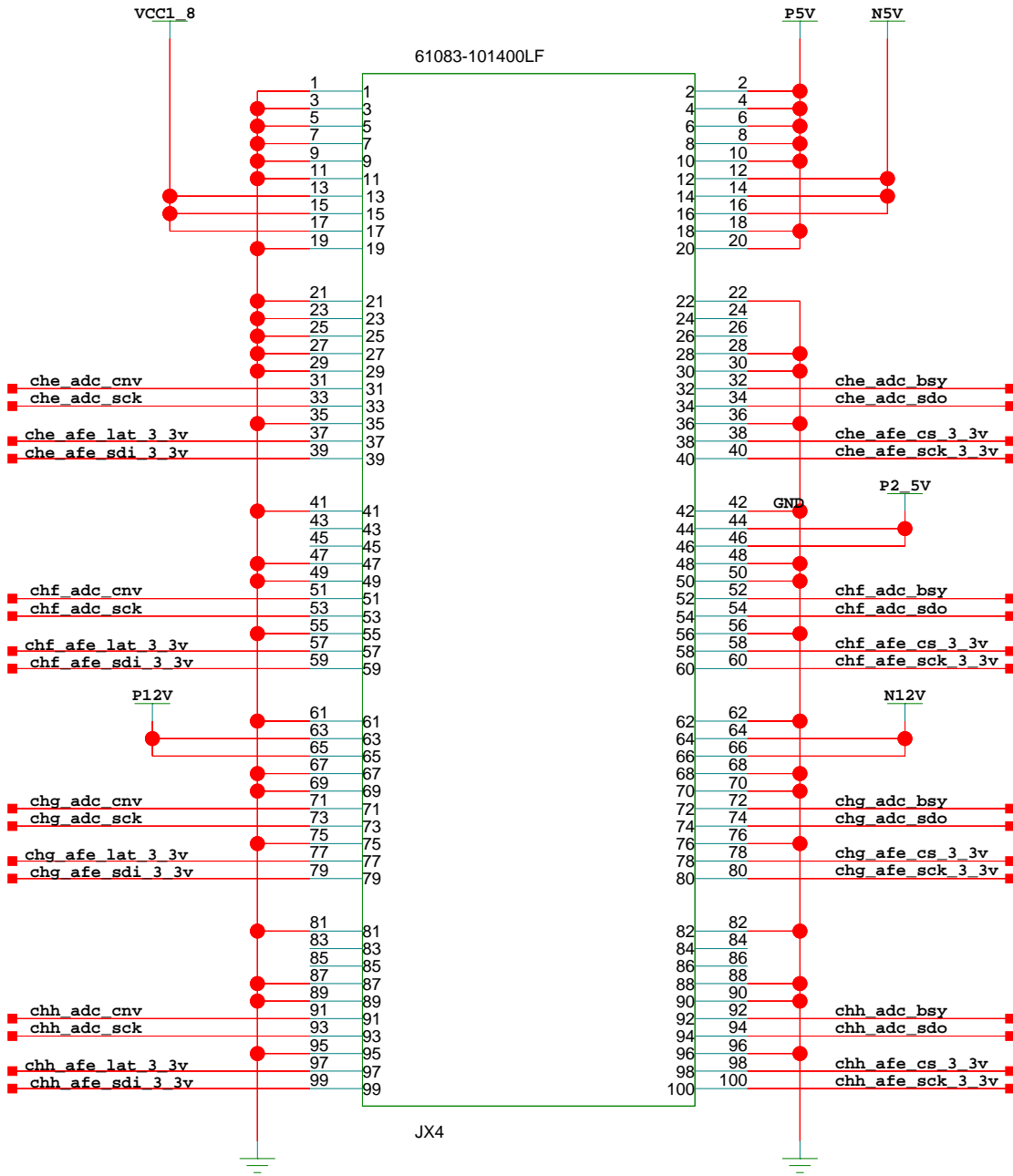


Title: PicoZed Electrometer	
Date: 7-22-21	Ver: D
Sheet Size: B	Rev: D
Sheet 3 of 19	Drawn By J. Mead



Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 4 of 19	Drawn By J. Mead

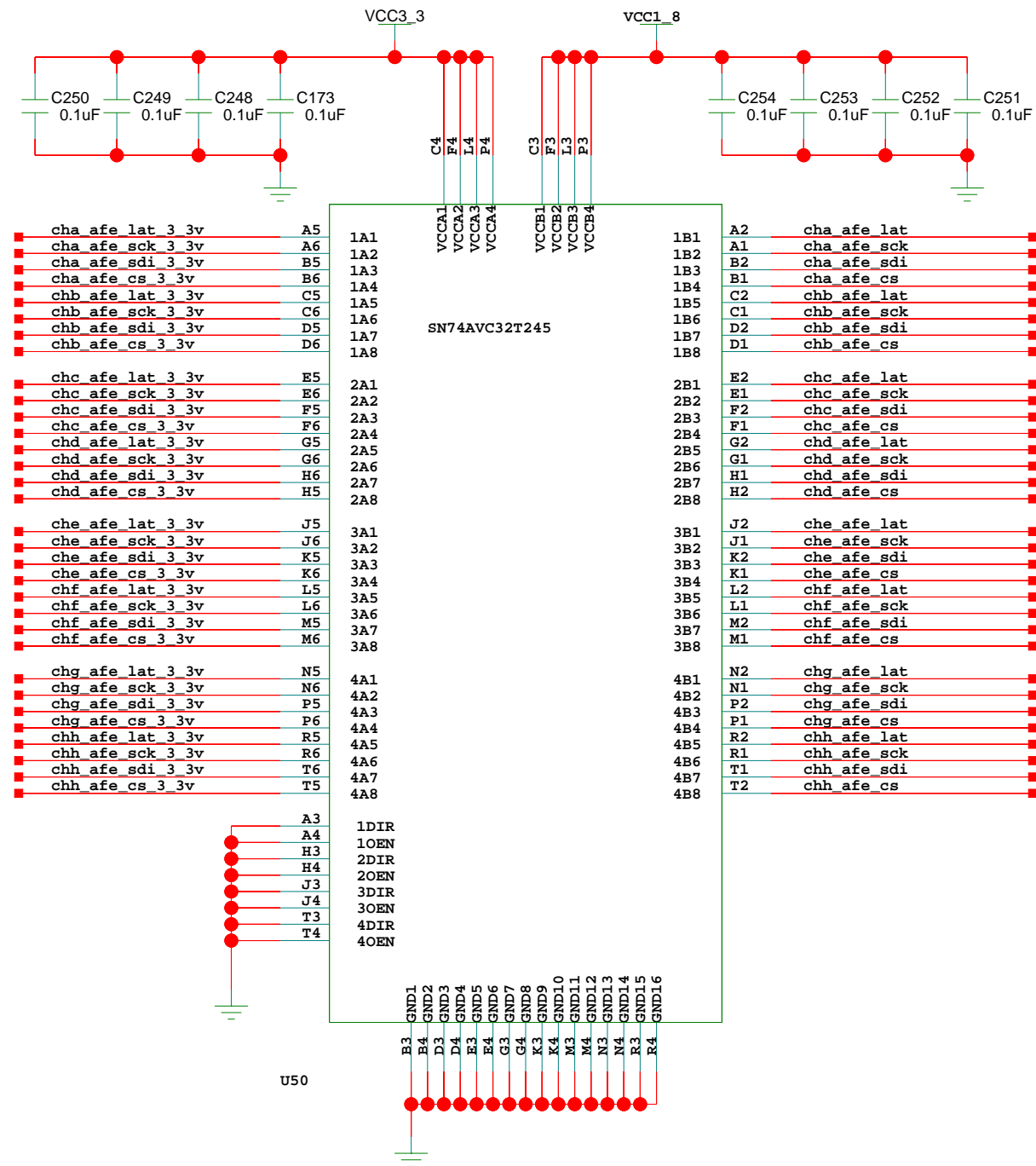
Expansion Connector



Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 5 of 19	Drawn By J. Mead

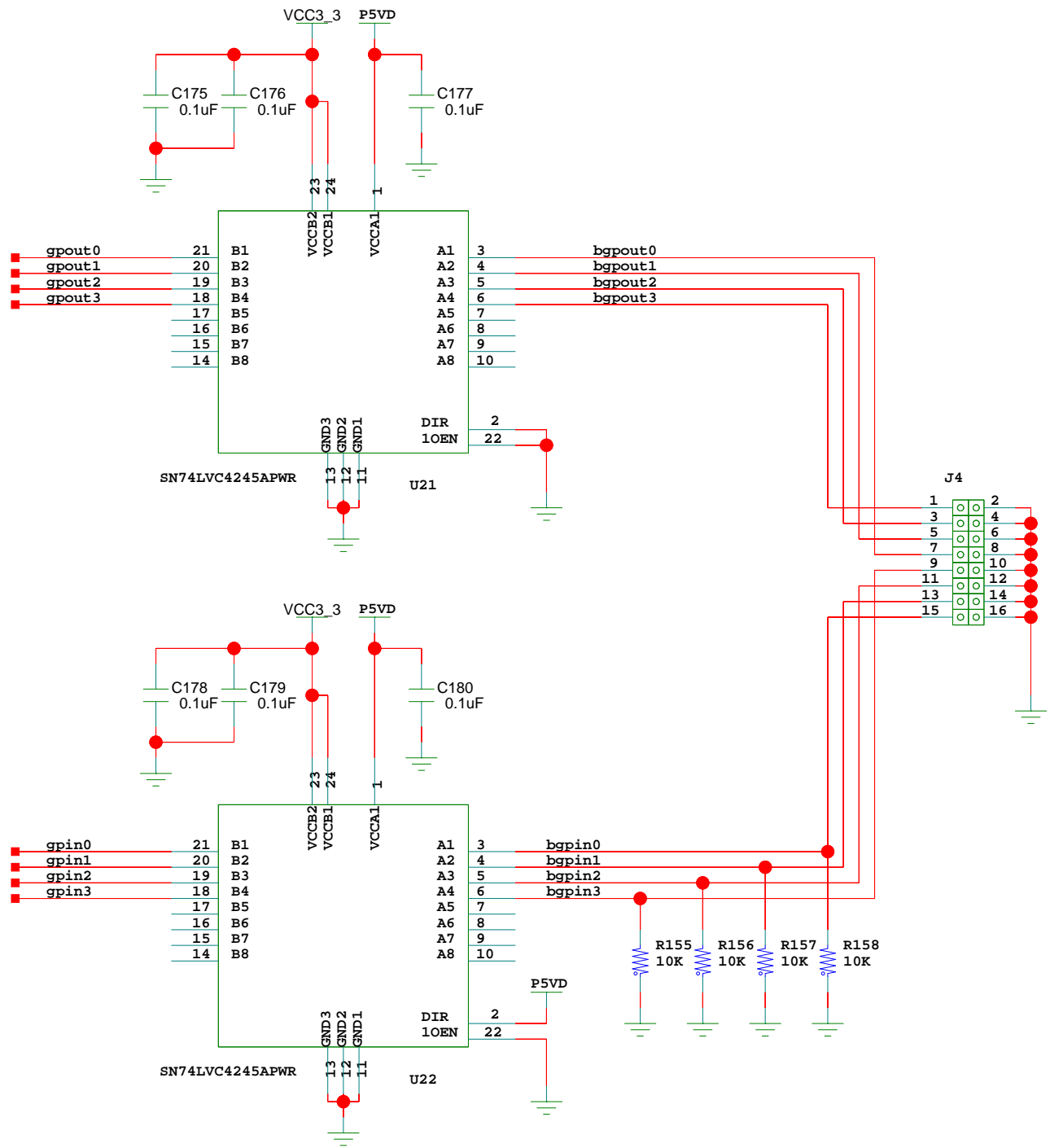
3.3v to 1.8v level translator

Front End to picoZed



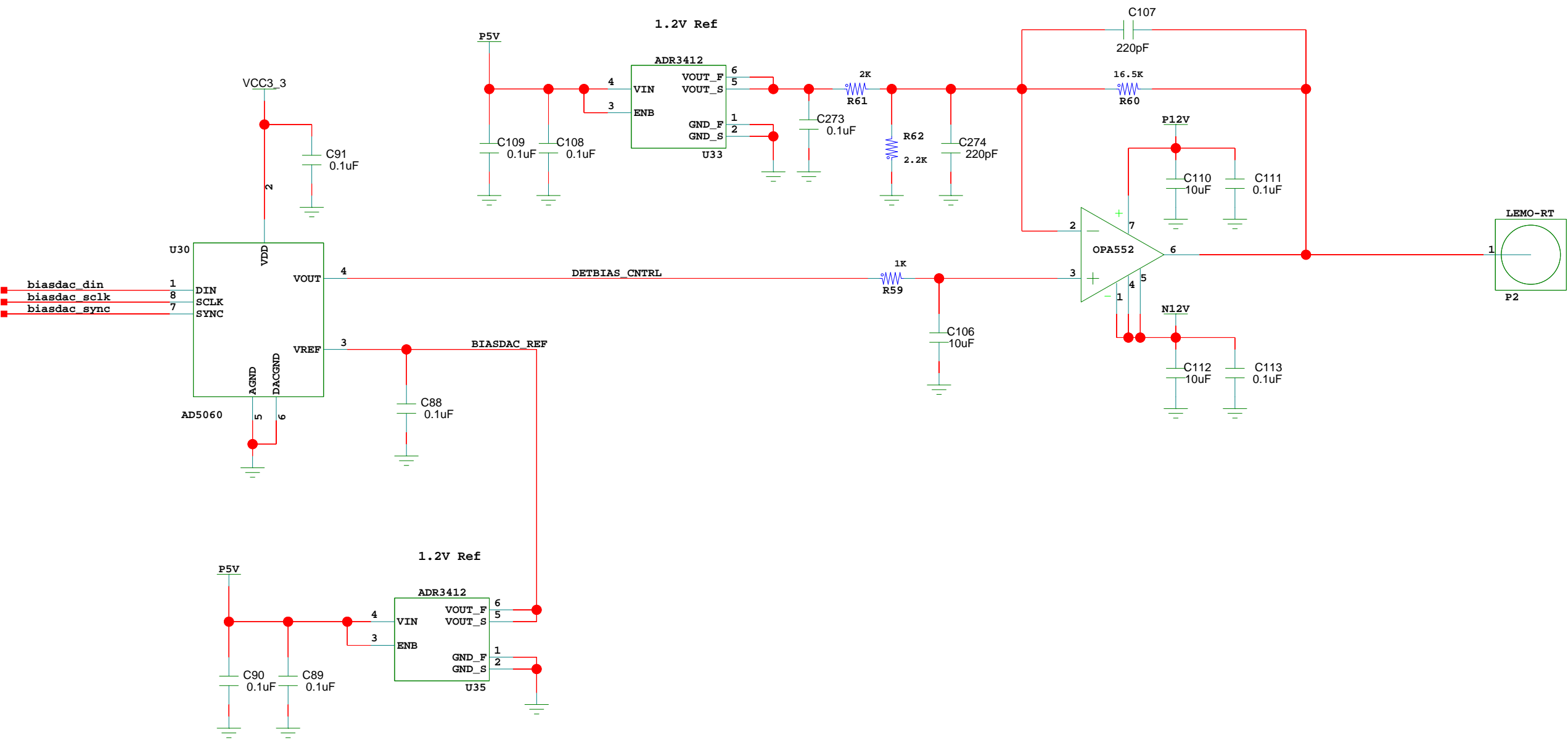
Front panel GPIO

3.3v to 5v level translator



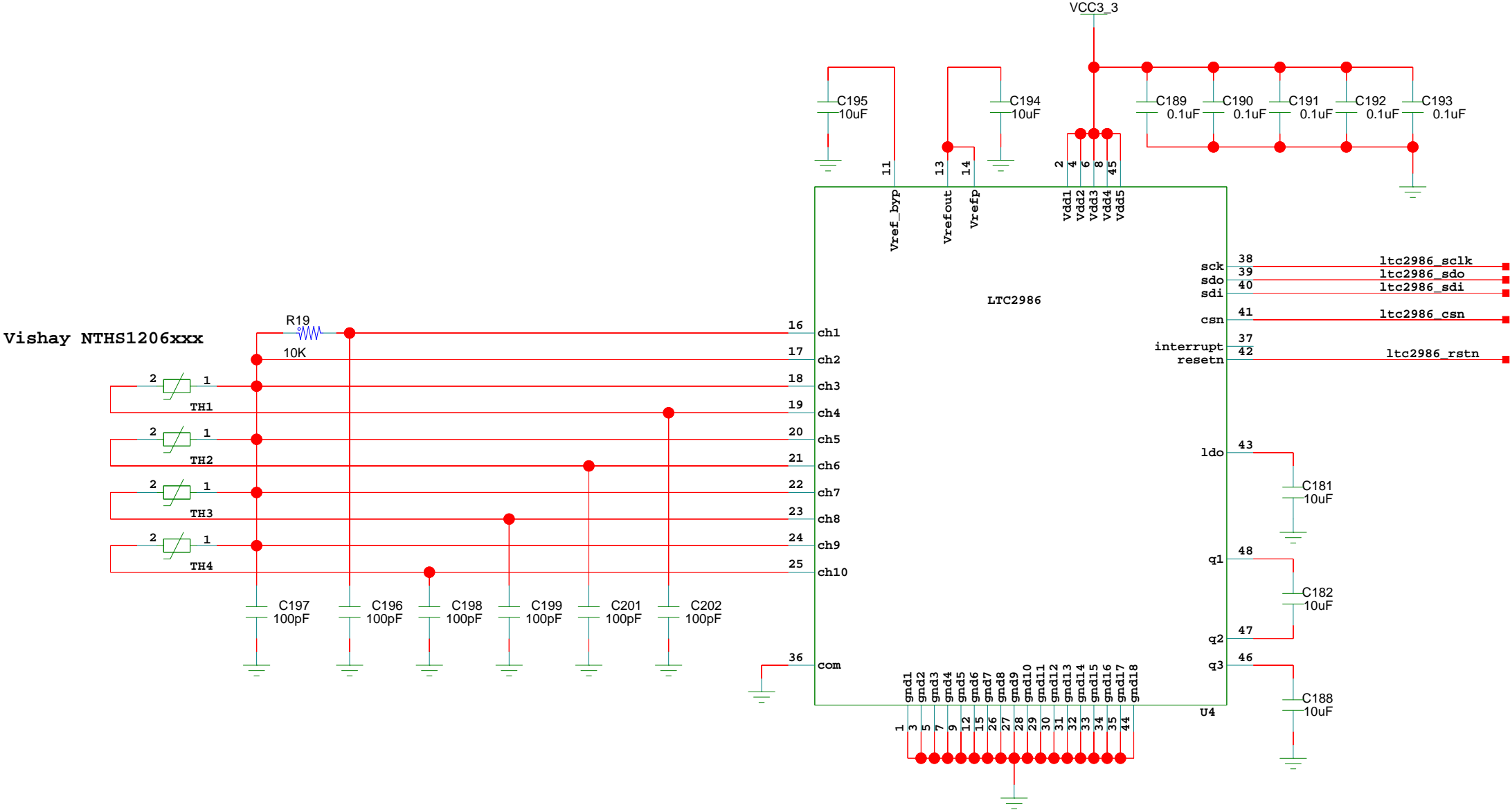
Title:		PicoZed Electrometer	
Date:	7-22-21	Ver:	
Sheet Size:	B	Rev:	D
Sheet	6	of	19
Drawn By		J. Mead	

Detector BIAS



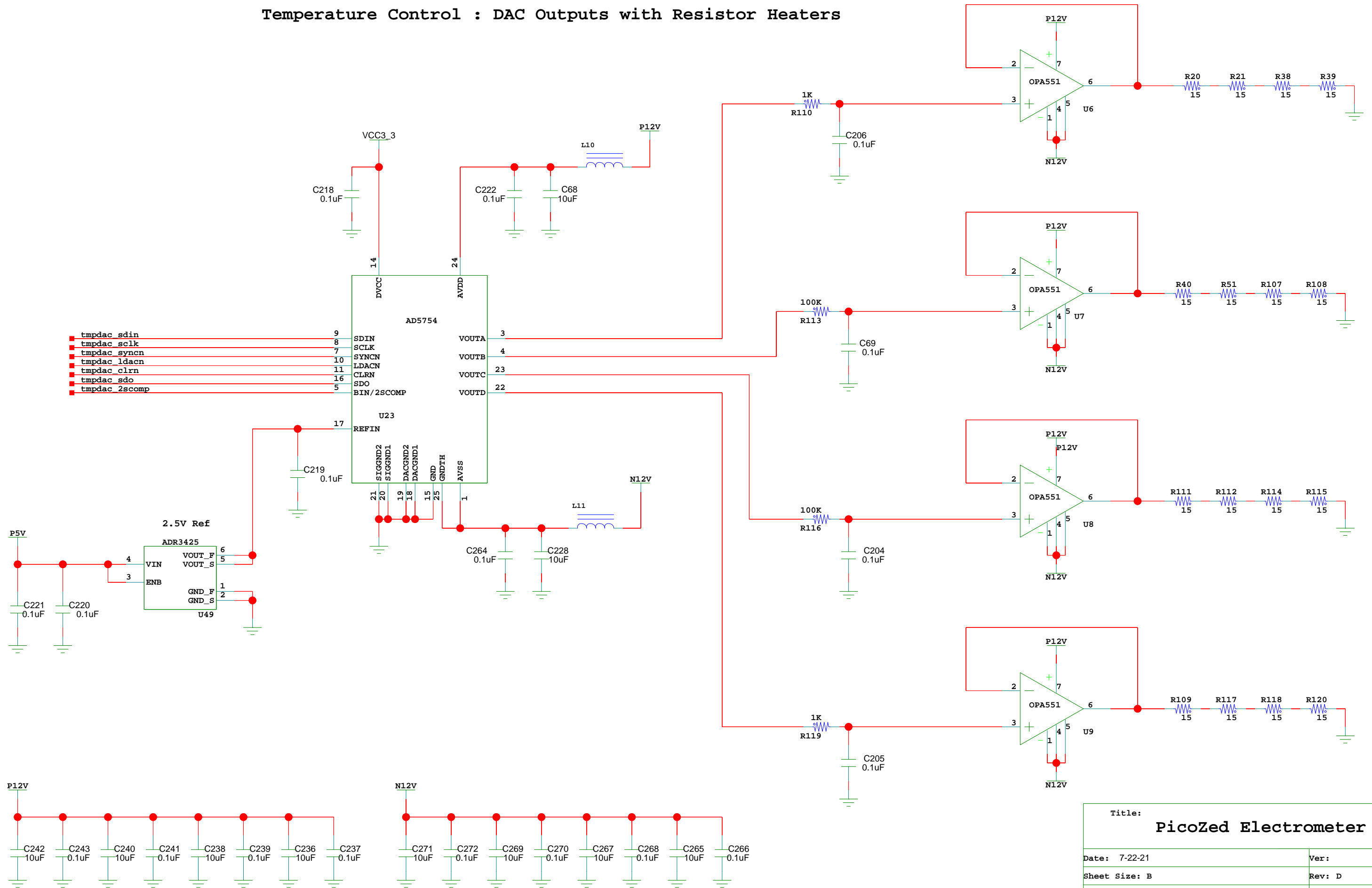
Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 7 of 19	Drawn By J. Mead

Temperature Control: Thermistor Readback



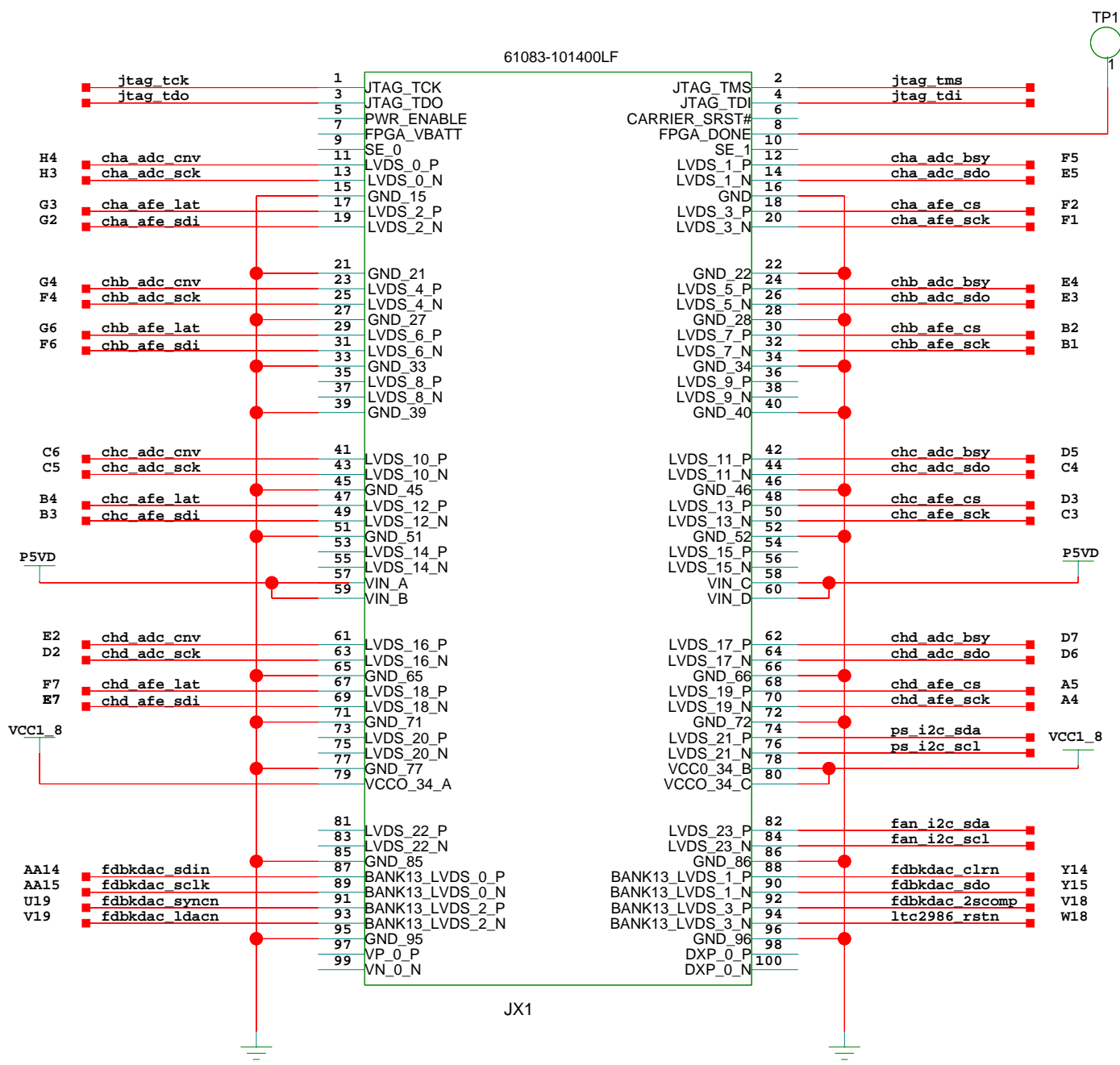
Title: PicoZed Electrometer	
Date: 7-22-21	Ver: D
Sheet Size: B	Rev: D
Sheet 9 of 19	Drawn By J. Mead

Temperature Control : DAC Outputs with Resistor Heaters

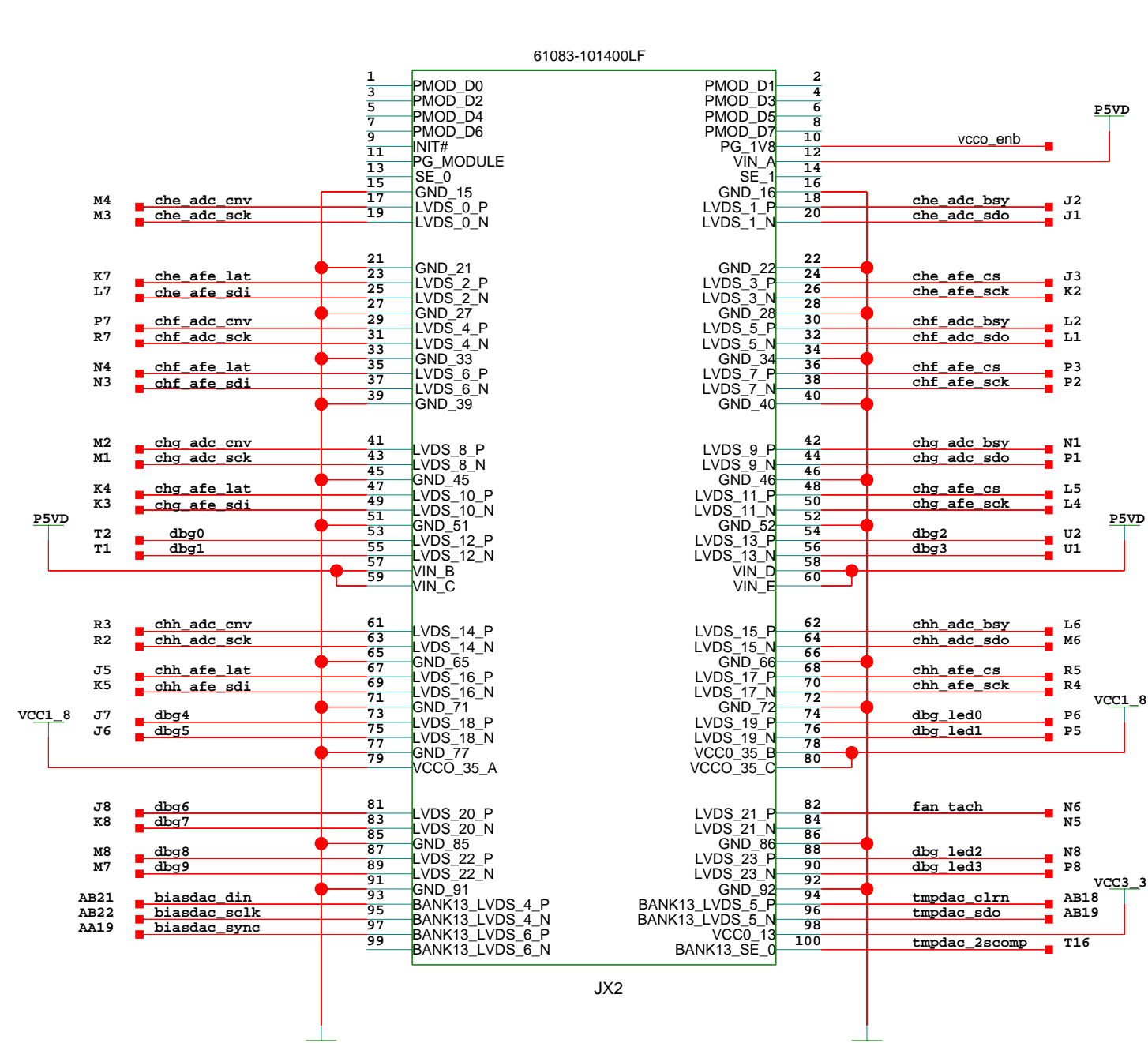


Title:		PicoZed Electrometer	
Date: 7-22-21		Ver:	
Sheet Size: B		Rev: D	
Sheet	10	of	19
		Drawn By	
		J. Mead	

picoZED Connectors JX1 & JX2



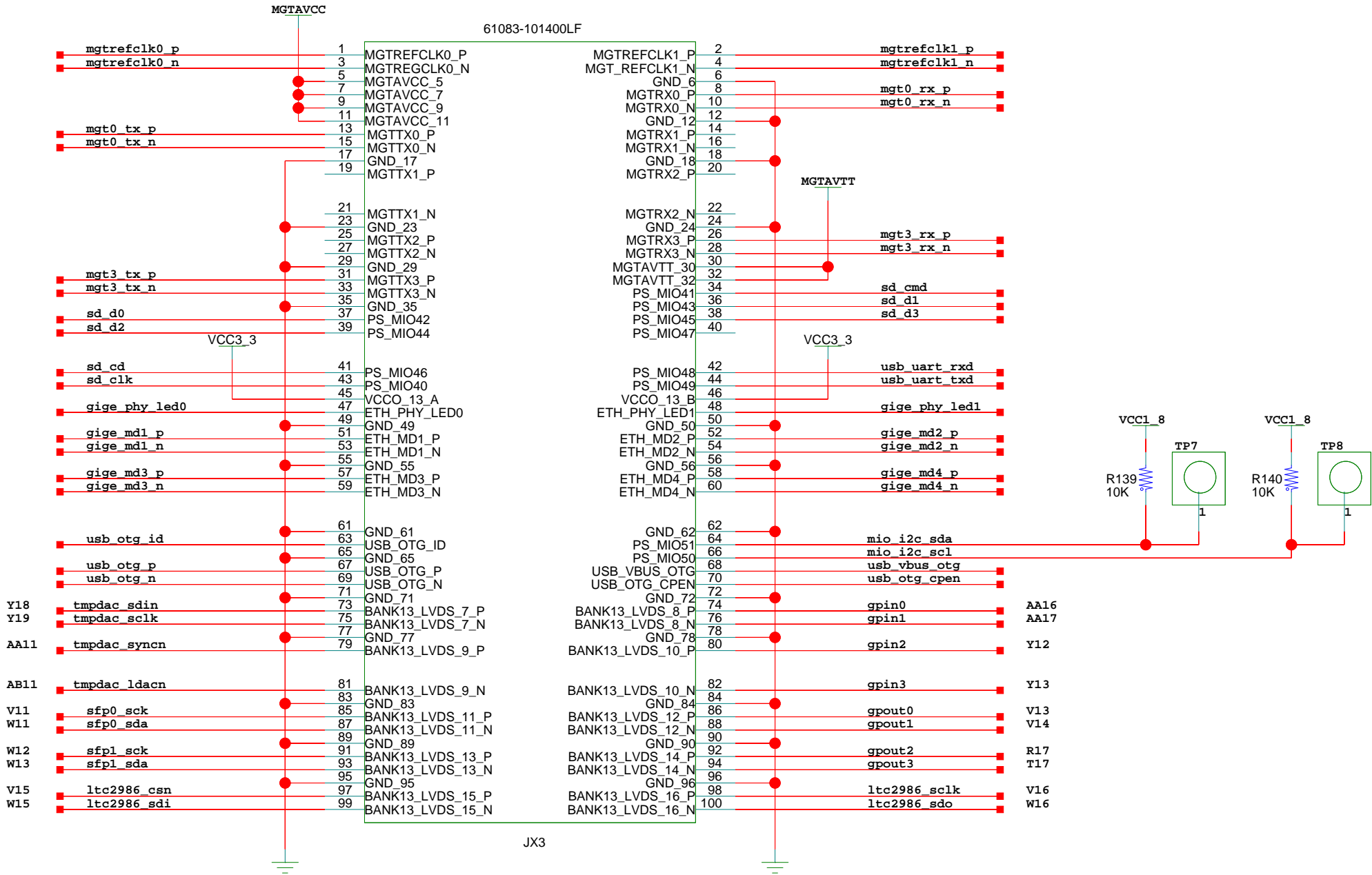
Connects to BANK 35 (1.8V) LVDS



Connects to BANK 34 (1.8V)

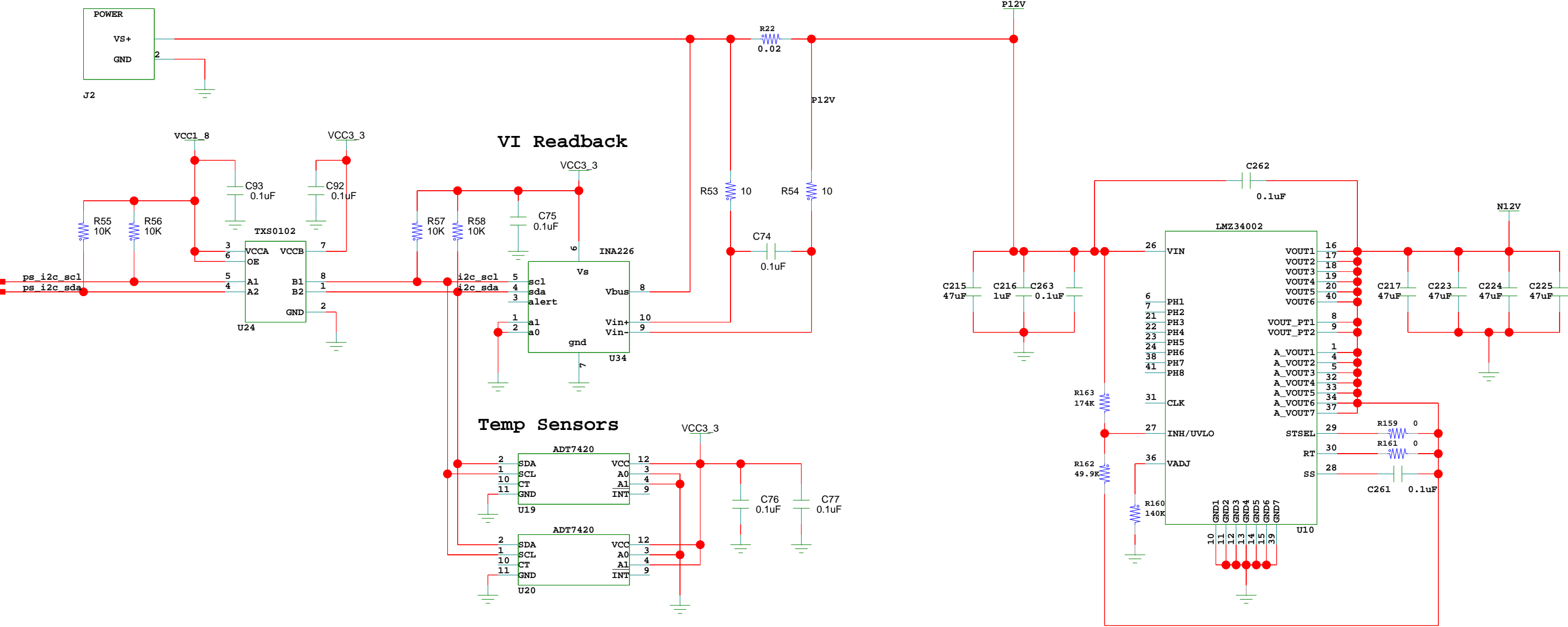
Title:		PicoZed Electrometer	
Date: 7-22-21		Ver:	
Sheet Size: B		Rev: D	
Sheet 11 of 19		Drawn By J. Mead	

picoZED Connector JX3



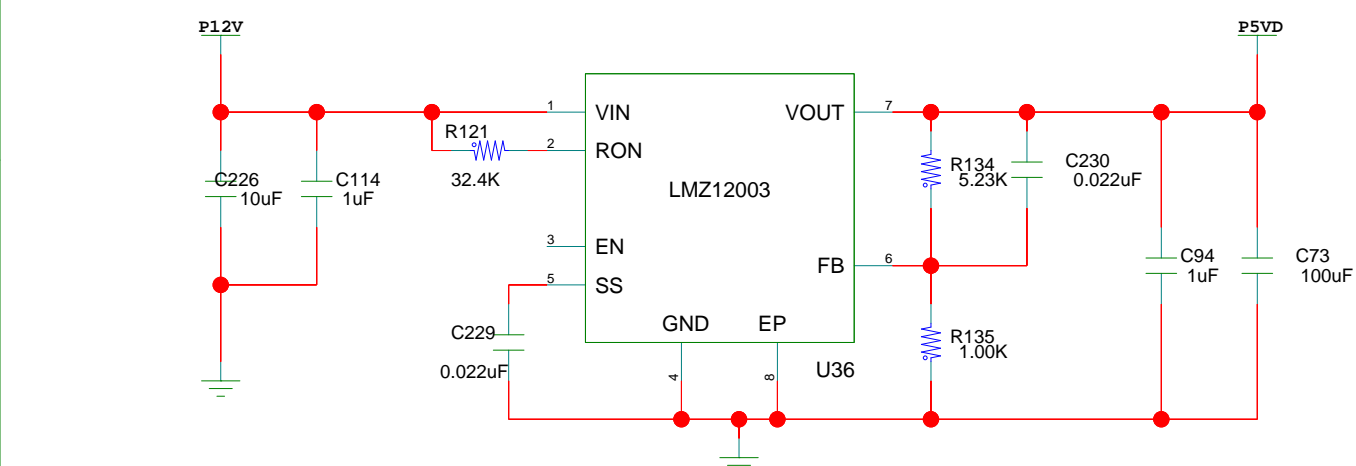
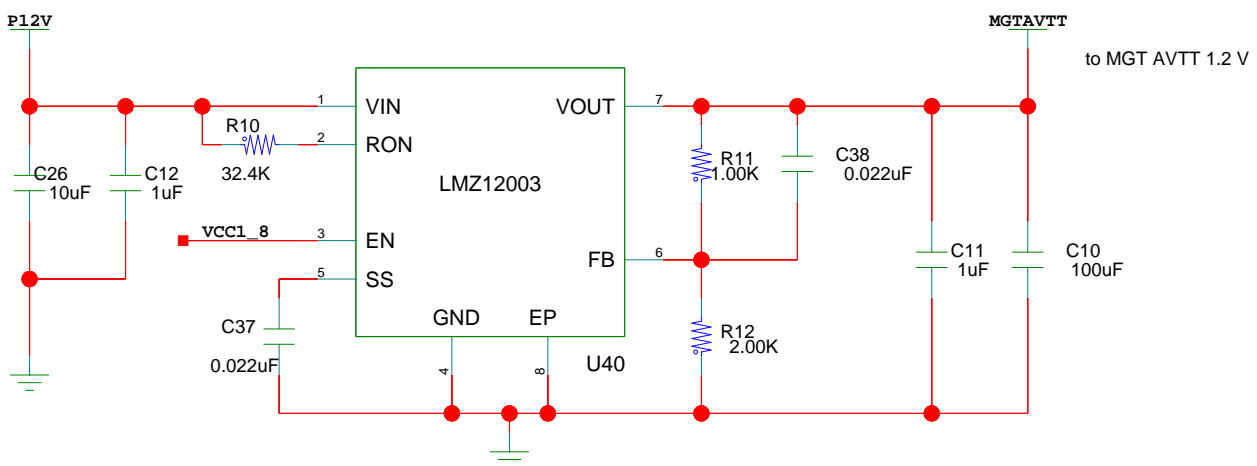
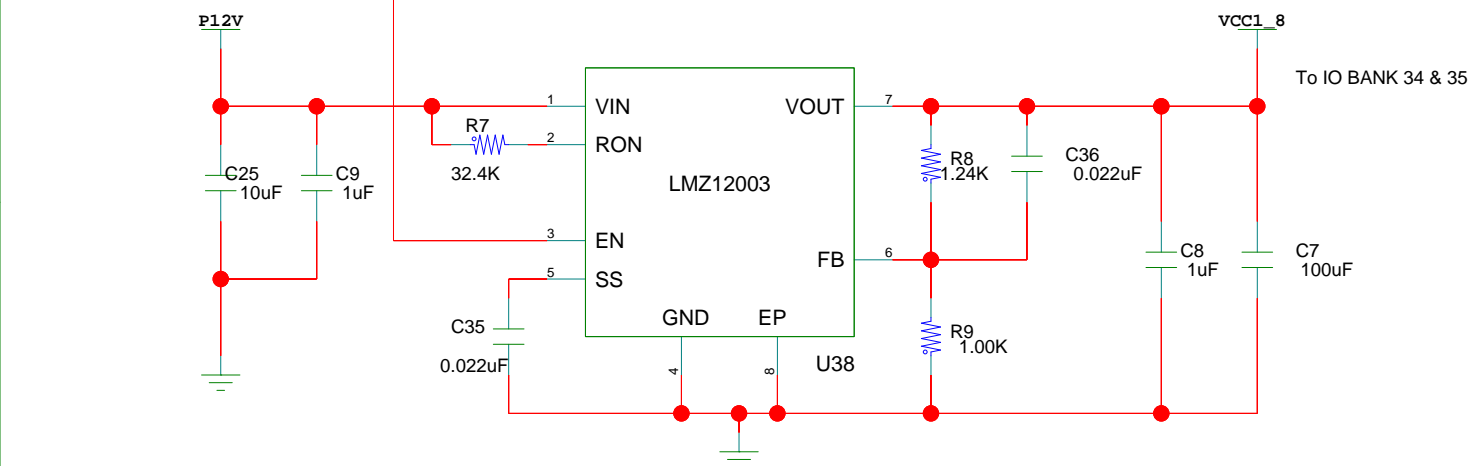
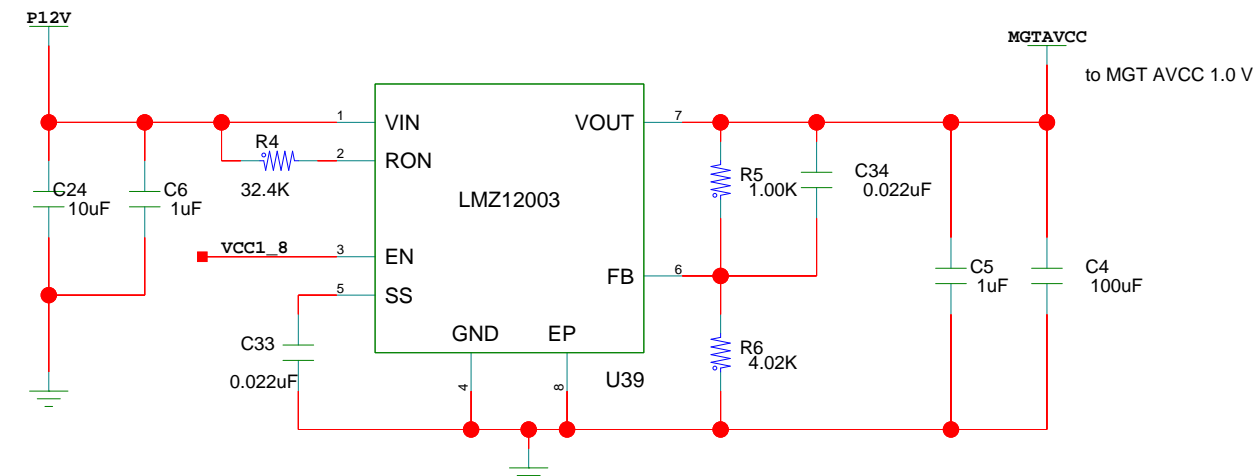
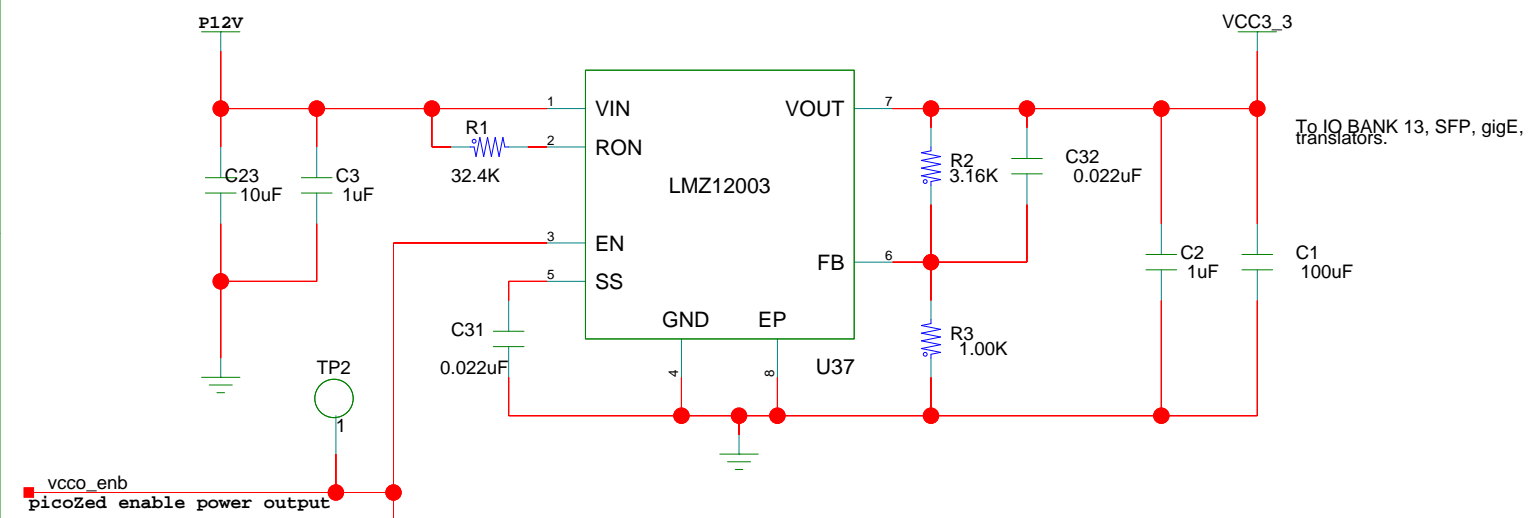
Title:		PicoZed Electrometer	
Date: 7-22-21		Ver:	
Sheet Size: B		Rev: D	
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+12v Input
2.1 mm Power Jack



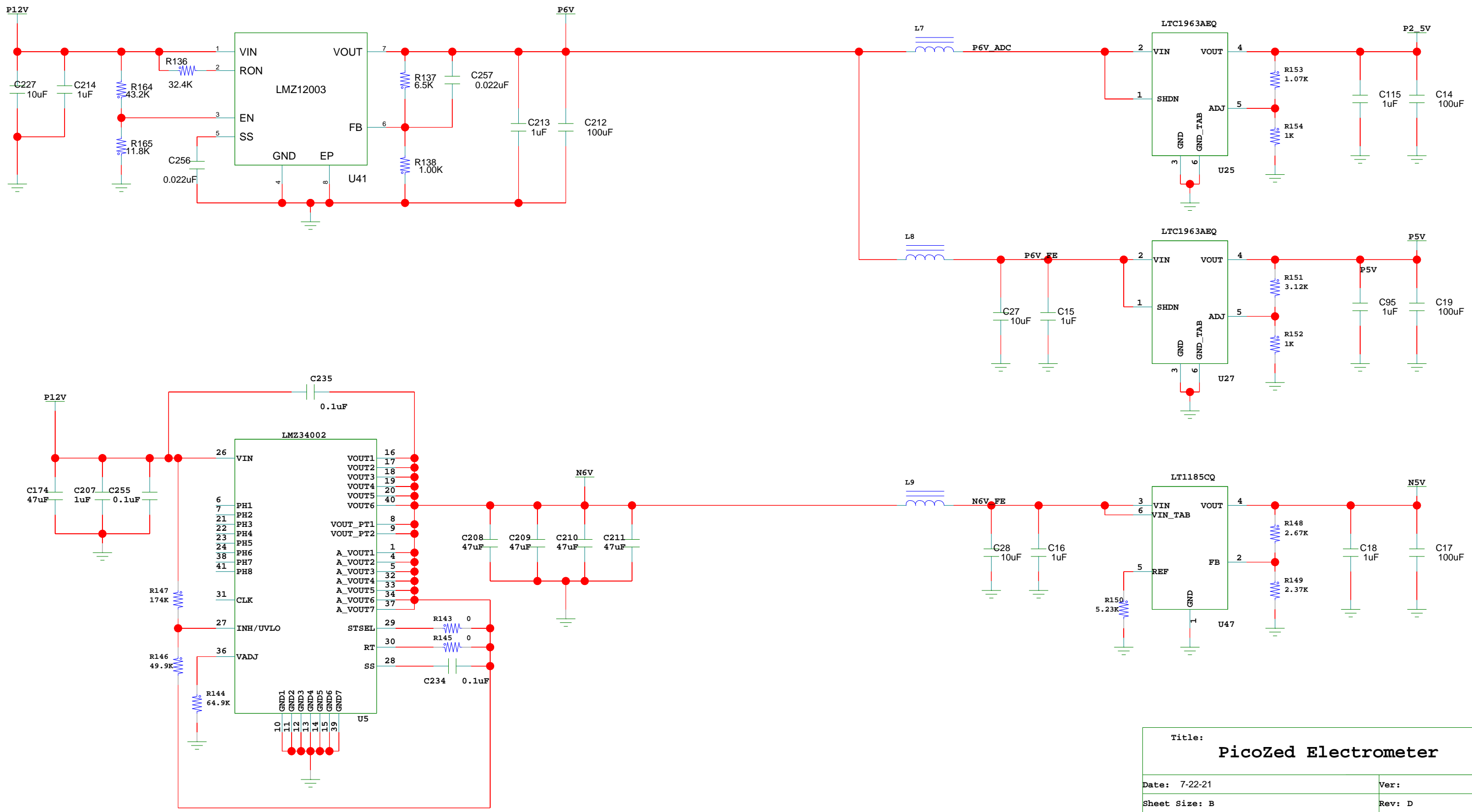
Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 13 of 19	Drawn By J. Mead

Digital Power Regulators



Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
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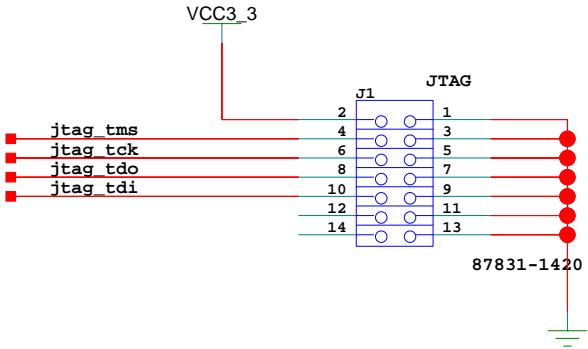
Front End Regulators



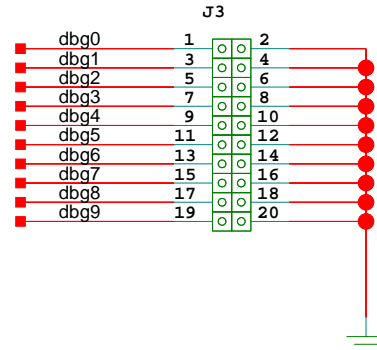
Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
Sheet Size: B	Rev: D
Sheet 15 of 19	Drawn By J. Mead

Miscellaneous

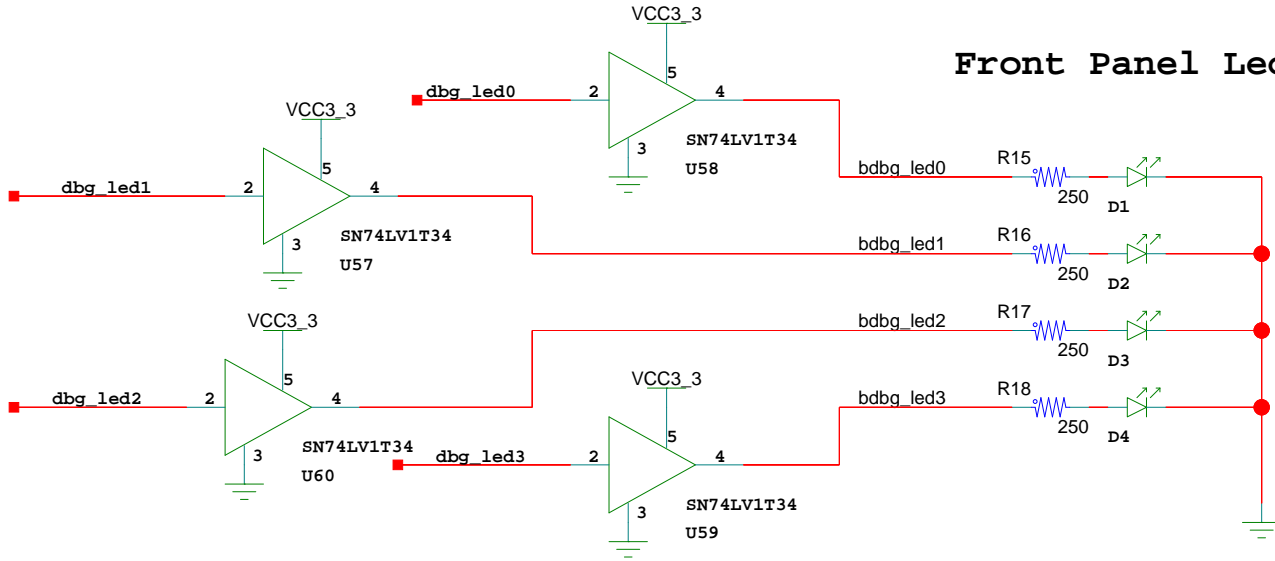
JTAG Header



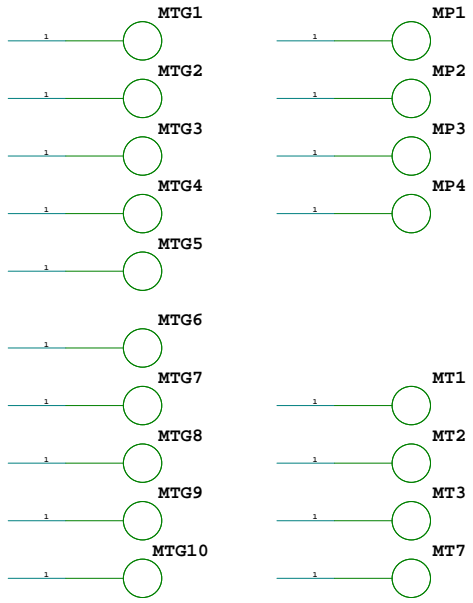
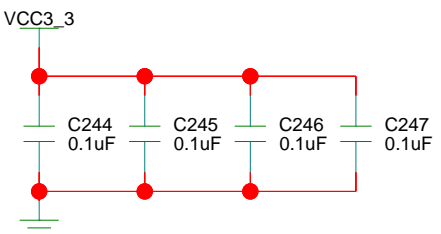
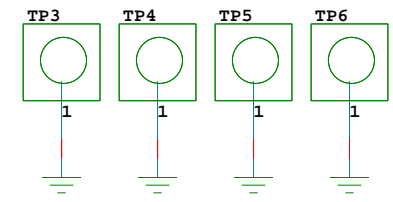
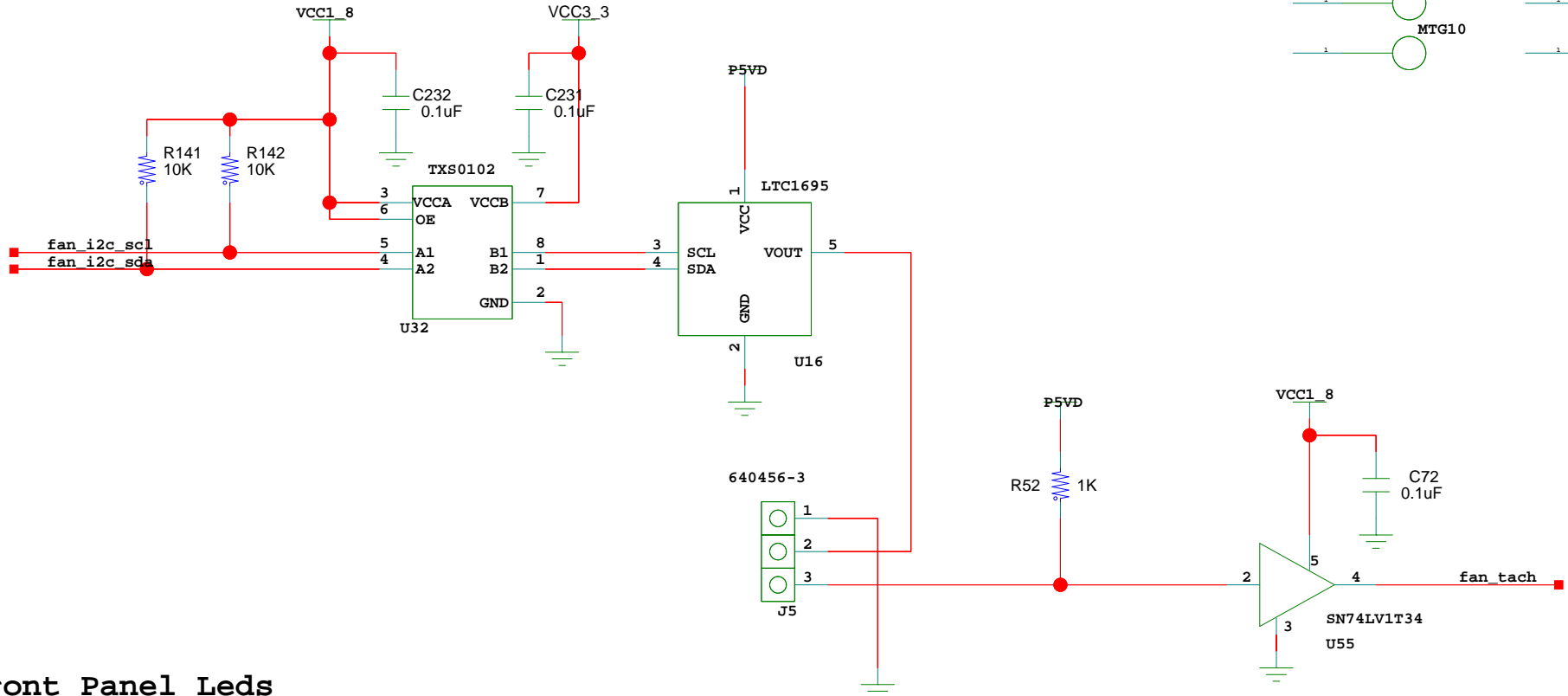
Debug Header



Front Panel Leds



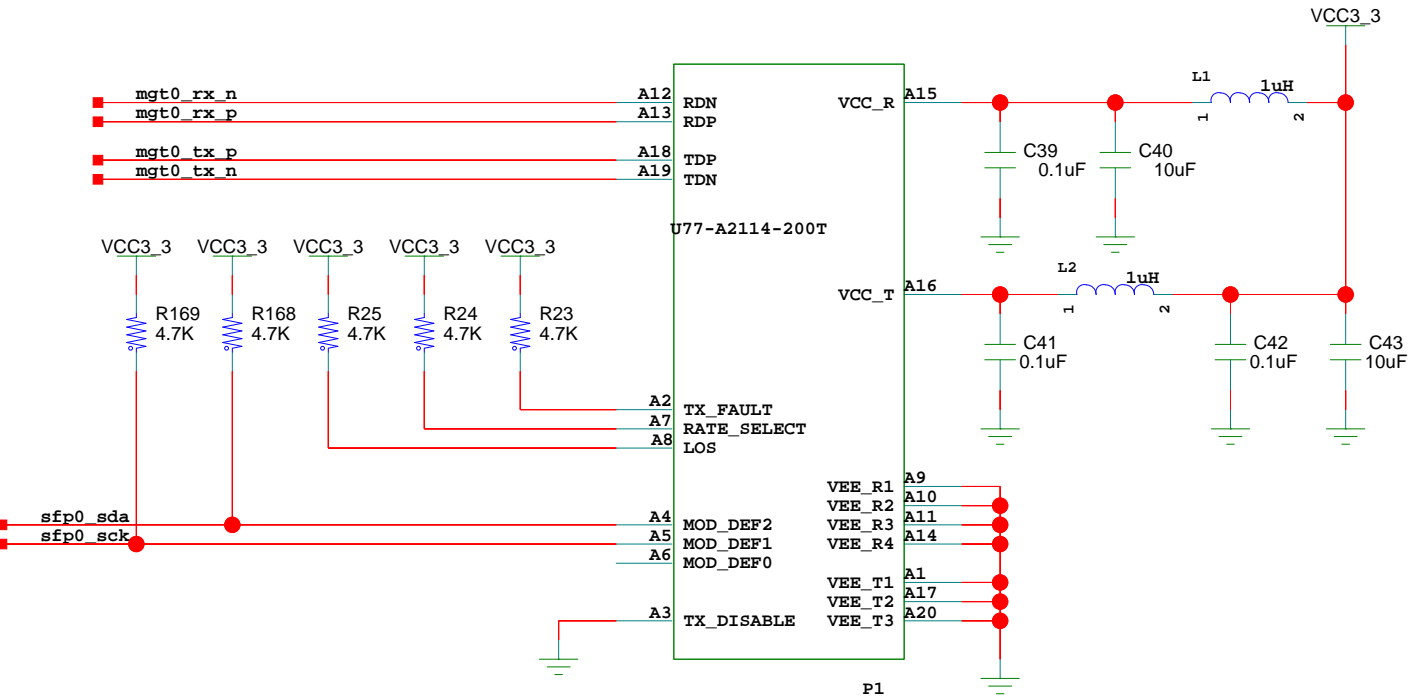
Fan Speed Control



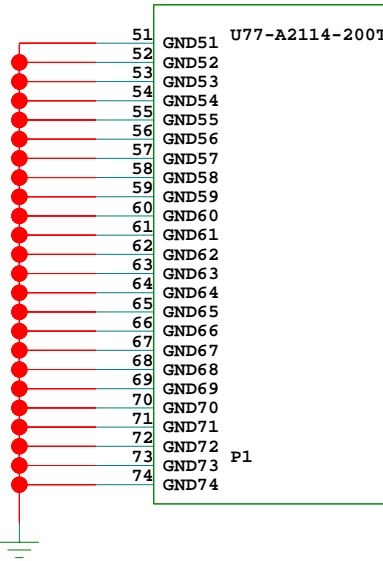
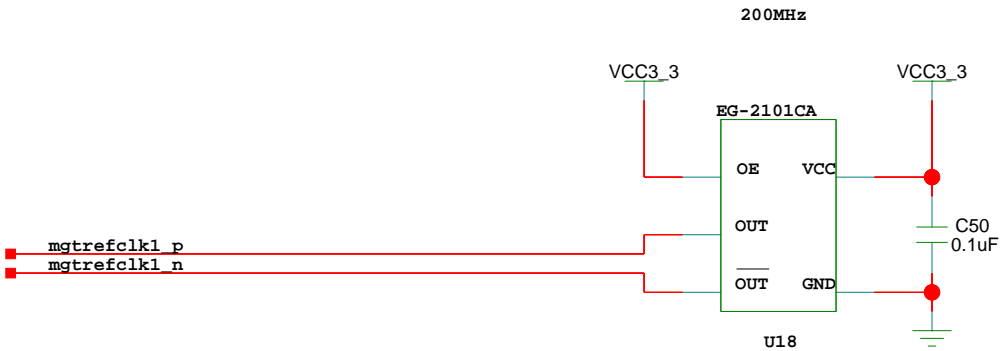
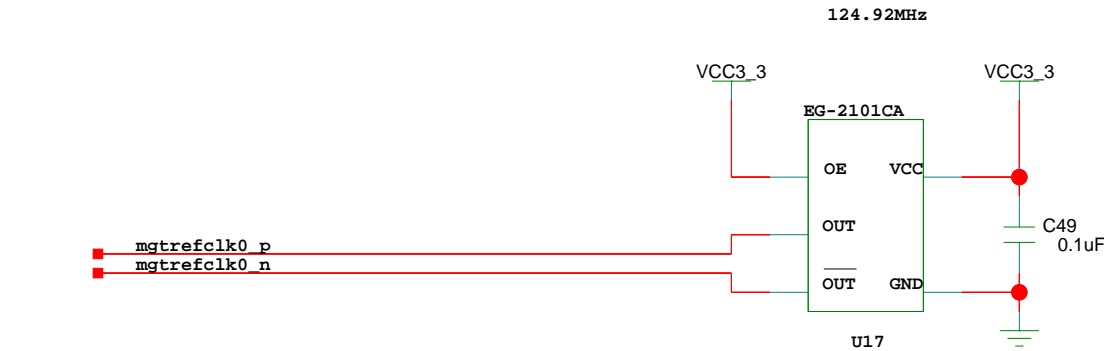
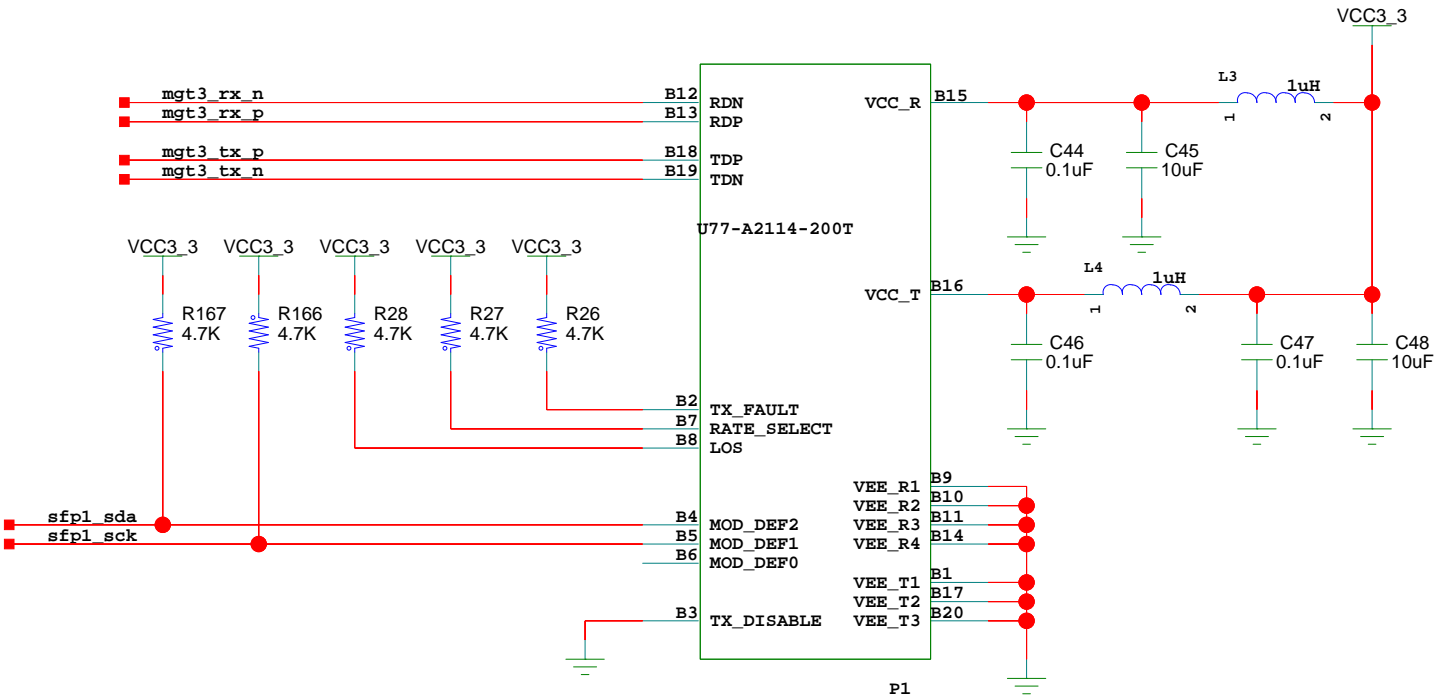
Title: PicoZed Electrometer			
Date: 7-22-21		Ver: D	
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SFP Connecters

Event Receiver

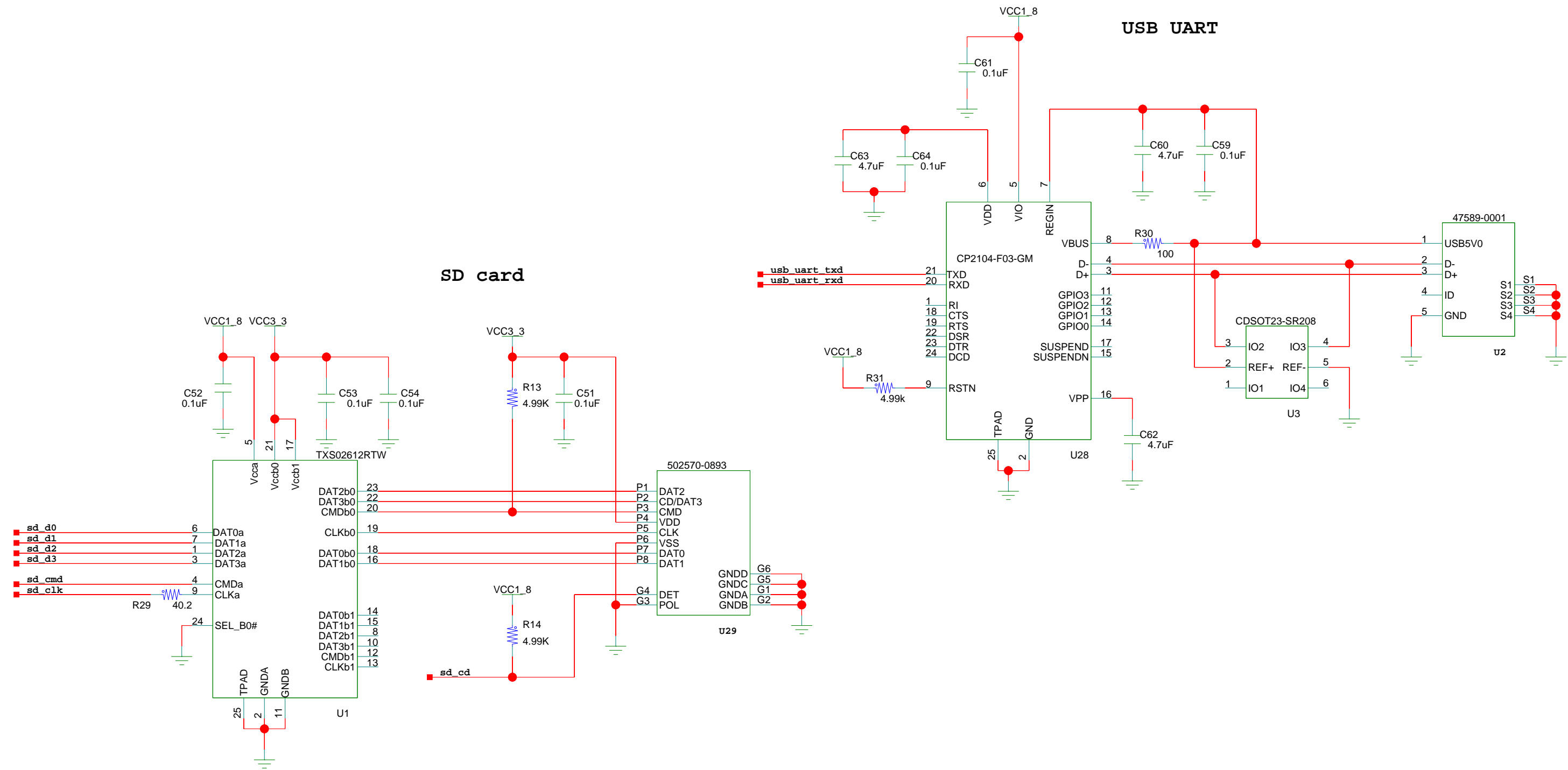


Data Transceiver



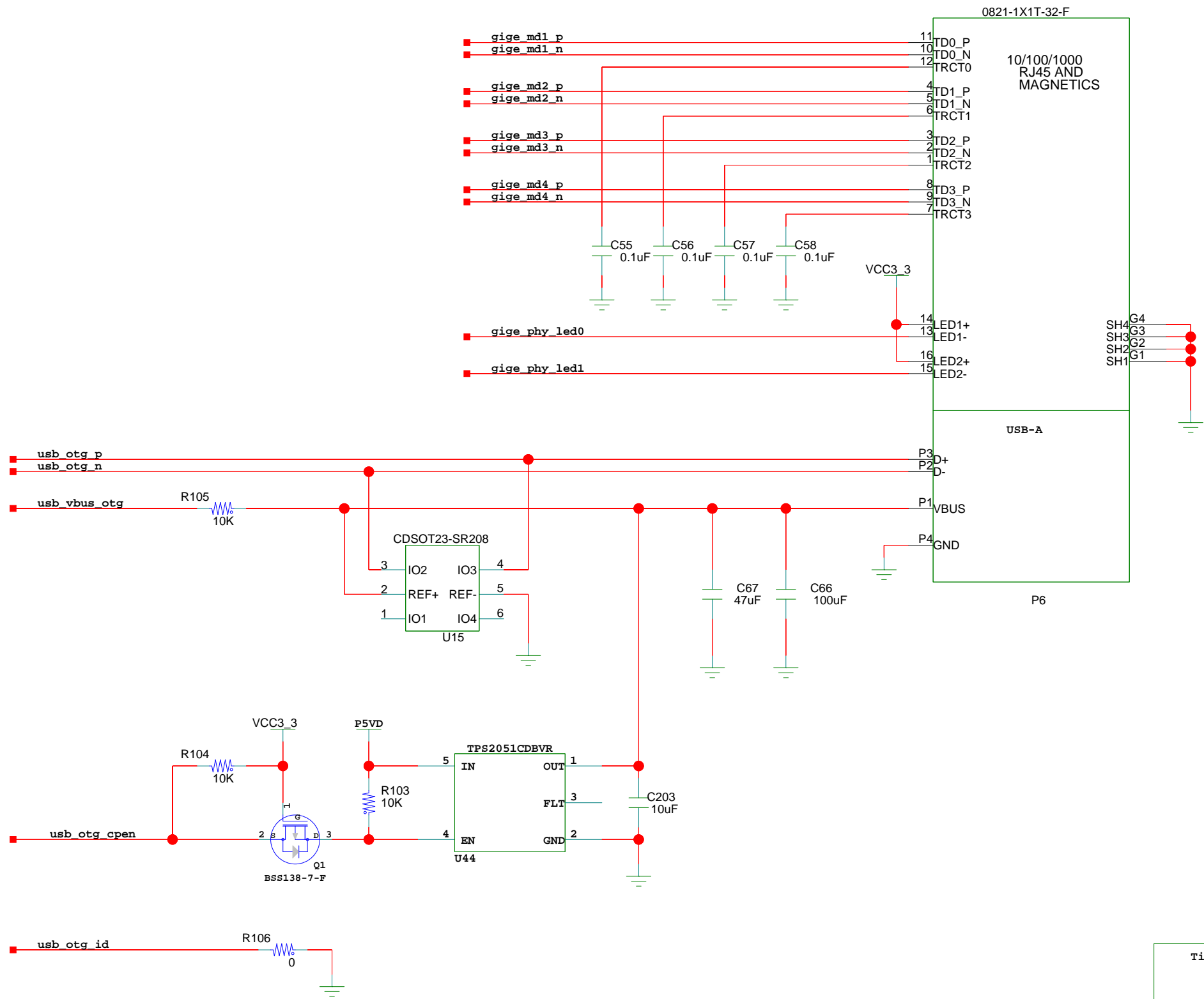
Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
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Zynq Peripherals : SDCARD / UART



Title: PicoZed Electrometer	
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Zynq Peripherals : Gigabit Ethernet / USB



Do Not Install, selects
host mode vs device mode

Title: PicoZed Electrometer	
Date: 7-22-21	Ver:
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