

Barometer v1.0 Parts List

ID	Description	DigiKey Part#	Mouser Part#
X1	3-pin Screw Term Block 3.5mm	ED1515-ND	
X2	RJ-45 Jack 2 Port	A9013-ND	
U1	DS2438Z	Available from Dallas	
U2	MPXA4115A	MPXA4115AC6U-ND	
U3	INA122U	INA122U-ND	
REG1	L78L05	NJM78L05UA-ND	511-L78L05ACU
REG2	L78L12	NJM78L12UA-ND	511-L78L12ACU
C1,C2,C3	4.7 uF Electrolytic	PCE3011CT-ND	661-MKA35VC4R7M
C4	1 uF Ceramic	PCC2319CT-ND	
D1	BAT54S	BAT54SWT1OSCT-ND	625-BAT54S
R1	40.2K 1/4W 1%	311-40.2KFCT-ND	71-CRCW1206-40.2K
R2	1K 1/4W 1%	311-1.00KFCT-ND	71-CRCW1206-1.0K
R3	2K 1/4W 1%	311-2.00KFCT-ND	71-CRCW1206-2.0K
R4	2K Pot Multi-turn		72-T93YA-2K
JP1	3 pin header	WM6707-ND	571-1029727

Mouser is usually cheaper than DigiKey but the terminal blocks are cheaper at DigiKey.

Construction Tips

- Place all surface mount components first.
- Observe the polarity of C1, C2 and C3
- REG1 is marked BCF3
- REG2 is marked 8KE8
- D1 is marked L44
- R1 is marked 4022
- R2 is marked 1001
- R3 is marked 2001
- C4 is brown and not marked
- Install U2 before C1, C2 or C3
- If a water resistant coating (like liquid electrical tape) is going to be used make sure to not apply it to the MPXA4115A pressure sensor.