

# MAV - MICRO ALTIMETER VEGA - USB

**Design Title** MAV - MICRO ALTIMETER VEGA - USB  
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**Document Number**  
**Revision**  
**Design Created**  
**Design Last Modified**  
**Total Parts In Design** 40

## 7 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>SIZE</u>	<u>Unit Cost</u>
2	C1, C7	10uF	SMD 0805	\$0.02
2	C2, C4	1uF	SMD 0805	\$0.02
1	C3	100nF	SMD 0805	\$0.01
2	C5, C6	20pF	SMD 0805	\$0.01
Sub-totals:				\$0.11

## 17 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>SIZE</u>	<u>Unit Cost</u>
4	R1, R2, R3, R6	220	SMD 0805	\$0.01
2	R4, R5	100	SMD 0805	\$0.01
5	R7, R9, R13, R14, R16	1k	SMD 0805	\$0.01
2	R8, R10	500	SMD 0805	\$0.01
1	R11	10	SMD 0805	\$0.01
2	R12, R15	1M	SMD 0805	\$0.01
1	R17	20k	SMD 0805	\$0.01
Sub-totals:				\$0.17

## 1 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>SIZE</u>	<u>Unit Cost</u>
1	U1	PIC18F2553/PIC18F2550/PIC18LF2553/PIC18LF2550	SOIC 28	\$5.80
Sub-totals:				\$5.80

## 3 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>SIZE</u>	<u>Unit Cost</u>
1	D1	LED	3 mm	\$0.01
1	D2	LED	SMD 0805	\$0.01
1	D3	B5819WS	SOD-323	\$0.01
Sub-totals:				\$0.03

## 12 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>SIZE</u>	<u>Unit Cost</u>
1	BAT1	3.7V	2.54mm JST	\$0.10
1	ICSP1		PCB	\$0.00
1	J1	6P	3pin x 2rows x 1.27mm - Female	\$0.30
1	LIPO	MCP73831-4.2V	SOT23-5	\$0.85
1	PCB1	PCB	60 x 16 x 1.6mm	\$0.20
1	Q1	AO3401	SOT-23	\$0.02
1	Q2	MMBT2222A	SOT-23	\$0.02
2	Q3, Q4	BSS138	SOT-23	\$0.02
1	USB1	Type B	Type B 4Pin Right Angle - Female	\$0.15

1	VREG	XC6206P302MR 3.3v	SOT-23	\$0.02
1	X1	4MHz	HC-49S	\$0.10
Sub-totals:				\$1.80
Totals:				\$7.91