

A/D Board BOM

Item	Reference	Qty	Pop	Manufacturer	Part Number	Description	Distributor	Stock Number	Value	Modifier	Cost@1	Cost Per Board
1	C1	1	1	AVX Corporation	08055C223KAT2A	Capacitor, Ceramic, 0.022uF, 50V, 10%, X7R, 0805	Digi-Key	478-1387-1-ND	0.022uF	50V	\$0.14	\$0.14
2	C40-54	15	1	AVX Corporation	08055C104KAT2A	Capacitor, Ceramic, 0.1uF, 50V, 10%, X7R, 0805	Digi-Key	478-1395-1-ND	0.1uF	50V	\$0.12	\$1.80
3	C4-13	10	1	AVX Corporation	08055C102KAT2A	Capacitor, Ceramic, 1000pF, 50V, 10%, X7R, 0805	Digi-Key	478-1371-1-ND	1000pF	50V	\$0.12	\$1.20
4	C2-3	2	1	AVX Corporation	12102C106KAT2A	Capacitor, Ceramic, 10uF, 10V, 10%, X7R, 1210	Digi-Key	478-1625-1-ND	10uF	10V	\$3.08	\$6.15
5	C33-34	2	1	AVX Corporation	12103C106KAT2A	Capacitor, Ceramic, 10uF, 25V, 10%, X7R, 1210	Digi-Key	478-5728-1-ND	10uF	25V	\$0.92	\$1.84
6	C26-29	4	1	AVX Corporation	08052C105KAT2A	Capacitor, Ceramic, 1uF, 10V, 10%, X7R, 0805	Digi-Key	478-1405-1-ND	1uF	10V	\$0.32	\$1.28
7	C21-24	4	1	AVX Corporation	12063C105KAT2A	Capacitor, Ceramic, 1uF, 25V, 10%, X7R, 1206	Digi-Key	478-1567-1-ND	1uF	25V	\$0.29	\$1.16
8	C30-32	3	1	AVX Corporation	TPSA106K010R0900	Capacitor, Tantalum, 10uF, 10V, 10%, 1206	Digi-Key	478-1751-1-ND	10uF	10V	\$0.93	\$2.79
9	P5	1	1	TE Connectivity	640456-8	Connector, Header, Tab, 8-Position, Vertical, 0.100", Through-Hole	Digi-Key	A1924-ND	8-Pin Vert	0.100"	\$0.47	\$0.47
10	P1-4	4	1	TE Connectivity	640456-2	Connector, Header, Vertical, 2-Position, 0.100" with Tab	Digi-Key	A1921-ND	2-Pin	0.100"	\$0.17	\$0.68
11	J1 J4	2	1	Keystone Electronics	8191	Connector, Screw, Vertical, PC Mount	Digi-Key	8191K-ND	15A	Jun-32	\$0.54	\$1.08
12	U1	1	1	Murata Power Solutions Inc	NMV1205SC	Converter, DC/DC, 1W, 12V in, 5 & -5V out, SIP	Digi-Key	811-1597-5-ND	-5V, -5V	1W	\$11.81	\$11.81
13	U2	1	1	Murata Power Solutions Inc	NMG1205SC	Converter, DC/DC, 2W, 12V in, 5V out, SIP	Digi-Key	811-1706-5-ND	2W	5V	\$9.40	\$9.40
14	X1	1	1	ECS Inc	ECS-49-20-5PX-TR	Crystal, 4.9152MHz, ±30ppm, 20pF, 11.40mm x 4.80mm, SMD	Digi-Key	XC1240CT-ND	4.9152MHz	20pF	\$0.67	\$0.67
15	D1-11	11	1	Fairchild Semiconductor	BAV99	Diode, Switching, Dual, 70V, 200mA, SOT23	Digi-Key	BAV99FSCT-ND	70V	200mA	\$0.27	\$2.97
16	U3	1	1	Cirrus Logic Inc	CS5534-BSZ	IC, 4-Channel, Differential, 24-Bit ADC, SSOP24	Digi-Key	598-1116-5-ND	24-Bit	0.00%	\$19.19	\$19.19
17	U4	1	1	Texas Instruments	OPA2735AID	IC, Op-Amp, Dual, Chopper, SOIC8	Digi-Key	296-16770-5-ND	1.5 V/μs	±1.35 V ~ 6 V	\$7.61	\$7.61
18	U6-9	4	1	Fairchild Semiconductor	FOD0710	IC, Optocoupler, Logic-in, Logic-out, SOP8	Digi-Key	FOD0710-ND	4.5V~5.5V	10mA	\$4.47	\$17.88
19	U5	1	1	Linear Technology	LT1461AIS8-2.5#PBF	IC, Voltage Reference, Precision, 2.5V, SOIC8	Digi-Key	LT1461AIS8-2.5#PBF-ND	2.5V	±0.04%	\$13.79	\$13.79
20	R10-11	2	1	Panasonic Electronic Components	ERJ-6ENF1002V	Resistor, Thick Film, 10.0K, 0.125W, 1%, 0805	Digi-Key	P10.0KCCT-ND	10K0	0.125W	\$0.13	\$0.26
21	R14-16	3	1	Panasonic Electronic Components	ERJ-6ENF1003V	Resistor, Thick Film, 100K, 0.125W, 1%, 0805	Digi-Key	P100KCCT-ND	100K	0.125W	\$0.13	\$0.39
22	R1-8	8	1	Panasonic Electronic Components	ERJ-6ENF4990V	Resistor, Thick Film, 499, 0.125W, 1%, 0805	Digi-Key	P499CCT-ND	499R	0.125W	\$0.13	\$1.04
23	Q1	1	1	Fairchild Semiconductor	MMBT3904	Transistor, General Purpose, NPN, SOT23	Digi-Key	MMBT3904FSCT-ND	40V	200mA	\$0.18	\$0.18
24	Q2	1	1	Fairchild Semiconductor	MMBT3906	Transistor, General Purpose, PNP, SOT23	Digi-Key	MMBT3906FSCT-ND	40V	200mA	\$0.20	\$0.20
											TOTAL:	\$103.98