

**15. Appendix – IV Bill of materials**

ANALOG CIRCUIT TEST BENCH Revised: Monday, July 30, 2012  
 AJ-ATE Revision: NIL

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 Item Quantity Reference Part

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1	1	C1	47UF 25V	
2	2	C2,C3	47U 25V	
3	1	C4	25UF 25V	
4	1	C5	0.1UF	
5	2	C6,C7	22PF	
6	3	C8,C10,C12	680PF	
7	3	C9,C11,C13	1800PF	
8	1	C14	1U 16V	
9	1	C15	0.01UF	
10	2	C18,C16	220UF 25V	
11	1	JP1	ANALOG IN	
12	1	JP2	D IO	
13	1	JP3	POWER IN	
14	1	JP4	ANALOG OP	
15	1	JP5	RS232	
16	1	Q1	2N5294	
17	3	Q2,Q5,Q7	BC107	
18	3	Q3,Q6,Q8	BC177	
19	1	Q4	2N6107	
20	5	R1,R59,R61,R63,R64	1K	
21	5	R2,R11,R17,R27,R35	50K	
22	6	R3,R12,R18,R28,R36,R45	820K	
23	6	R4,R13,R19,R30,R37,R47	4.7K	
24	1	R5	10	
25	6	R6,R14,R20,R31,R38,R48	120K	
26	4	R7,R52,R57,R65	10K	
27	12	R8,R9,R15,R16,R22,R23, R32,R33,R40,R41,R55,R56	100K	
28	1	R10	560	
29	2	R21,R25	1	
30	4	R24,R26,R34,R50	5.6K	
31	3	R29,R39,R53	1.8K	
32	1	R42	2.7K	
33	1	R43	1M	
34	1	R44	POT	
35	1	R46	56K	
36	2	R49,R62	18K	
37	1	R51	470	
38	2	R58,R54	5.1K	
39	1	R60	4K7	
40	4	U1,U7,U12,U14	LF353	
41	1	U2	LM7905	
42	1	U3	L7809	
43	1	U4	L7805	
44	1	U5	54LS244	
45	1	U6	DSPIC30F4011	
46	1	U8	LM741	
47	3	U9,U11,U15	LF398	
48	1	U13	CD40106B	
49	1	U16	LM311	
50	1	Y1	6MHz	