

BILL OF MATERIALS
ADS4449 AMP IF REV B

Item Number	QTY	Part Reference	Value	PCB Footprint	Mfr_Name	Mfr_Part_Number	Note
1	1	C1	47uF	TANT_B	KEMET	T494B476M010AT	
2	3	C2 C16 C24	33uF	TANT_B	AVX	TPSB336K016R0350	
3	30	C3 C4 C5 C6 C9 C10 C11 C12 C17 C18 C19 C20 C22 C25 C26 C27 C28 C29 C114 C115 C116 C117 C118 C119 C120 C121 C122 C123 C124 C125	0.1uF	0201	AVX	02016D104KAT2A	
4	4	C7 C53 C109 C113	1uF	0402	MURATA	GRM155R60J105KE19D	
5	4	C8 C21 C23 C97	10uF	0603	MURATA	GRM188R60J106ME47D	
6	2	C13 C15	0.1uF	0603	AVX	0603YC104KAT2A	
7	4	C14 C30 C37 C46	1uF	0603	AVX	0603YC105KAT2A	
8	2	C31 C48	2.2uF	0603	MURATA	GRM188R71A225KE15D	
9	2	C32 C41	4.7uF	0603	AVX	06036D475KAT2A	
10	2	C33 C43	4.7uF	1206	TDK CORP	C3216X7R1C475K/1.60	
11	3	C34 C40 C44	10nF	0402	TDK	C1005X7R1E103K	
12	0	C35 C45	10uF	0805	MURATA	GRM21BR71A106KE51L_DNI	DNI
13	36	C36 C39 C47 C61 C62 C65 C72 C77 C89 C102 C105 C106 C107 C108 C110 C111 C112 C128 C129 C130 C135 C136 C144 C148 C149 C151 C161 C162 C163 C164 C165 C168 C169 C186 C187 C190	.1uF	0402	MURATA	GRM155R61A104KA01D	
14	1	C38	10uF	0805	MURATA	GRM21BR71A106KE51L	
15	1	C42	33pF	0402	MURATA	GRM1555C1H330JZ01D	
16	8	C49 C55 C64 C71 C87 C92 C93 C95	1uF	0402	MURATA	GRM155R60J105KE19D	OR EQUIVALENT
17	16	C50 C51 C70 C74 C79 C86 C88 C91 C96 C103 C104 C138 C145 C167 C185 C188	.01uF	0402	MURATA	GRM155R71H103KA88D	
18	7	C52 C59 C66 C68 C73 C75 C94	10uF	1206	TDK CORP	C3216X5R1A106K	
19	6	C54 C57 C60 C131 C133 C134	.001uF	0402	AVX	04025C102JAT2A	
20	11	C56 C69 C83 C132 C141 C146 C170 C171 C172 C177 C179	100pF	0402	MURATA	GRM1555C1H101JZ01D	
21	47	C58 C63 C76 C80 C82 C84 C139 C140 C153 C154 C157 C159 C182 C184 L2 L8 L14 L15 L16 L17 L18 L24 L27 L28 L29 L30 L34 L35 R8 R9 R26 R47 R77 R78 R81 R83 R86 R89 R141 R142 R151 R165 R181 R184 R185 R186 R187	0	0402	PANASONIC	ERJ-2GE0R00X	
22	3	C67 C85 C189	.22uF	0402	TAIYO YUDEN	JMK105B7224KV-F	OR EQUIVALENT
23	0	C78 C90 C150	10pF	0402	MURATA	GRM1555C1H100JZ01D_DNI	DNI
24	0	C81 C142 C143 C160 C192	.1uF	0402	MURATA	GRM155R61A104KA01D_DNI	DNI
25	1	C98	.01uF	0805	MURATA	GRM2195C1H103JA01D	
26	1	C99	4.7uF	0805	AVX CORP	0805YC475KAT2A	
27	3	C100 C101 C194	47pF	0402	AVX	04025A470JAT2A	
28	1	C137	10pF	0402	MURATA	GRM1555C1H100JZ01D	
29	1	C191	0	0402	PANASONIC	ERJ-2GE0R00X	OR EQUIVALENT
30	1	C193	15pF	0402	KEMET	CBR04C150F5GAC	
31	3	D1 D3 D4	LED GREEN	LED_0805	PANASONIC	LNJ306G5UUX	
32	1	D2	LED AMBER	LED_0805	PANASONIC	LNJ406K54RX	
33	1	FB1	1K OHM @ 100MHz	1806	MURATA	BLM41PG102SN1L	
34	2	FB2 FB3	27uF	1206_BEAD_NFM31P	MURATA	NFM31PC276B0J3	
35	1	FB4	120 OHM @ 100MHz	1206	MURATA	BLM31PG121SN1L	
36	3	FB5 FB6 FB7	68 OHM @ 100MHz	1206	PANASONIC	EXC-ML32A680U	
37	1	J1	CONN JACK PWR	CON_RAPC722_JACK_THVT_3	SWITCHCRAFT	RAPC722X	

38	4	J2 J15 J16 J17	RED	JACK_THVT_BANANA_250DIA	ALLIED	ST-351A	
39	3	J3 J18 J19	BLK	JACK_THVT_BANANA_250DIA	ALLIED	ST-351B	
40	1	J4	USB_SUPER-MINI_AB	CON_SMRT_USBMNE20_F	WURTH ELEKTRONIK	651305142821	
41	9	J6 J7 J8 J9 J10 J11 J12 J13 J14	SMB_THVT_REC	SMA_THVT_312x312	Johnson Components	142-0701-201	
42	1	J5	QTH-060-01-F-D-A-RT1	CON_SMVT_120POS_QTH_SAMTEC_RT1	SAMTEC	QTH-060-01-F-D-A-RT1	
43	0	JP1 JP4	HEADER_1x2_100_430L	HDR_THVT_1x2_100_M	SAMTEC	HTSW-103-07-G-S_DNI	DNI
44	4	JP2 JP3 JP5 JP6	HEADER_1x3_100_430L	HDR_THVT_1x3_100_M	SAMTEC	HTSW-103-07-G-S	SHUNT 1-2
45	5	JP7 JP9 JP11 JP12 JP14	JUMPER_1X3_100	HDR_THVT_1x3_100_M	SAMTEC	HTSW-103-07-G-S	SHUNT 2-3
46	2	JP8 JP10	JUMPER_1X2_100	HDR_THVT_1X2_100_M	SAMTEC	HTSW-102-07-G-S	
47	2	JP13 JP15	JUMPER_1X3_100	HDR_THVT_1x3_100_M	SAMTEC	HTSW-103-07-G-S	SHUNT 1-2
48	0	L1 L9 L11 L25 L26 L31 L32 L37	0.12uH	0402	COILCRAFT	0402CS-R12XGL_DNI	DNI
49	2	L3 L6	22nH	0402	COILCRAFT	0402CS-22NXGL	
50	2	L4 L5	2.2uH	IND_SM_LPS3015	COILCRAFT	LPS3015-222ML	
51	0	L7 L10 L13 L19	82nH	0402	COILCRAFT	0402CS-82NXGL_DNI	DNI
52	4	L12 L23 L33 L36	82nH	0402	COILCRAFT	0402CS-82NXGL	
53	0	PP1 PP2 PP3 PP4	PROBE POINT	PROBE_POINT_22PAD	N/A	N/A	
54	1	Q1	CSD17313Q2	SON_8_2MMX2MM_0P65MM	TI	CSD17313Q2	
55	2	Q2 Q3	DTC114EET1G	SC_75_321	ON SEMI	DTC114EET1G	
56	3	R1 R4 R14	10K	0603	PANASONIC	ERJ-3EKF1002V	
57	1	R2	30.9K	0603	Panasonic	ERJ-3EKF3092V	
58	1	R3	649K	0402	PANASONIC	ERJ-2RKF6493X	
59	1	R5	120K	0402	PANASONIC	ERJ-2RKF1203X	
60	1	R6	12K	0603	VISHAY	CRCW060312K0FKEA	
61	1	R7	536K	0402	PANASONIC	ERJ-2RKF5363X	
62	1	R10	180K	0402	PANASONIC	ERJ-2RKF1803X	
63	1	R11	1.8K	0603	VISHAY	CRCW06031K80FKEA	
64	0	R12 R13 R27 R43 R44 R56 R79 R80 R82 R84 R87 R90 R97 R104 R105 R106 R107 R110 R111 R112 R113 R127 R128 R129 R130 R134 R135 R136 R137 R140 R166 R167 R168 R169 R170 R171 R172 R173 R174 R175 R176 R177 R178 R179 R180 R182 R183	0	0402	PANASONIC	ERJ-2GE0R00X_DNI	DNI
65	6	R15 R16 R18 R88 R92 R96	10K	0402	PANASONIC	ERJ-2RKF1002X	
66	0	R17 R19	0	0805	PANASONIC	ERJ-6GEY0R00V_DNI	DNI
67	20	R20 R22 R23 R24 R40 R57 R61 R72 R100 R123 R124 R133 R145 R146 R147 R148 R149 R150 R161	49.9	0402	PANASONIC	ERJ-2RKF49R9X	
68	2	R21 R69	91	0402	PANASONIC	ERJ-2RKF91R0X	
69	2	R25 R75	3.01K	0402	PANASONIC	ERJ-2RKF3011X	
70	10	R28 R30 R31 R32 R33 R65 R66 R114 R115 R118	24.9	0402	PANASONIC	ERJ-2RKF24R9X	
71	11	R29 R34 R41 R42 R94 R138 R139 R159 R160 R162 R163	1K	0402	PANASONIC	ERJ-2RKF1001X	
72	2	R35 R37	169	0402	PANASONIC	ERJ-2RKF1690X	
73	2	R38 R39	64.9	0402	PANASONIC	ERJ-2RKF64R9X	
74	0	R45 R53 R99	0	0603	PANASONIC	ERJ-3GEY0R00V_DNI	DNI
75	4	R46 R52 R76 R98	0	0603	PANASONIC	ERJ-3GEY0R00V	
76	2	R48 R51	4.99K	0402	PANASONIC	ERJ-2RKF4991X	
77	0	R49 R50 R54 R55 R108 R109 R125 R126	68	0402	PANASONIC	ERJ-2RKF68R0X_DNI	DNI
78	0	R58 R62 R73 R121 R122 R132	24.9	0402	PANASONIC	ERJ-2RKF24R9X_DNI	DNI
79	4	R59 R119 R120 R131	17.4	0402	VISHAY DALE	CRCW040217R4FKED	
80	2	R60 R74	15	0402	VISHAY DALE	CRCW040215R0FKED	
81	2	R63 R64	348	0402	PANASONIC	ERJ-2RKF3480X	
82	2	R67 R68	200	0402	PANASONIC	ERJ-2RKF2000X	

83	2	R70 R71	76.8	0402	PANASONIC	ERJ-2RKF76R8X	
84	2	R85 R93	330	0603	PANASONIC	ERJ-3EKF3300V	
85	3	R91 R95 R116	10	0402	PANASONIC	ERJ-2RKF10R0X	
86	2	R101 R103	121	0402	PANASONIC	ERJ-2RKF1210X	
87	0	R102 R156 R157 R158	1K	0402	PANASONIC	ERJ-2RKF1001X_DNI	DNI
88	1	R117	10	0402	PANASONIC	ERF-2RKF10R0X	
89	2	R188 R189	39pF	0402	AVX	04025A390FAT2A	
90	0	SJP1	SOLDER JUMPER, 0603	SJP3_JUMPER	DNI	DNI	DNI
91	2	SW1 SW2	SWITCH, PUSHBUTTON, THRU HOLE	SW_THVT_SPST_2	C & K SWITCH	PTS635SL43 LFS	
92	1	SW3	SWITCH, THVT, DIP, SPST	SW_THVT_SPST_8	CTS CORP	206-75T	
93	1	T1	RF TRANSFORMER	XFMR_5_106x169_59	PULSE	CX2156NL	
94	0	T2 T3 T4	TC2-1T+	XFMR_5_150X150_50_AT224	MINI-CIRCUITS	TC2-1T+_DNI	DNI
95	1	T5	ADT4-1WT+	XFMR_6_310X220_100	MINICIRCUITS	ADT4-1WT+	
96	2	TP1 TP2	RED	TP_THVT_100_RND	KEYSTONE	5000	
97	8	TP3 TP4 TP5 TP10 TP16 TP17 TP18 TP24	BLK	TP_THVT_100_RND	KEYSTONE	5001	
98	4	TP6 TP7 TP8 TP9	WHT	TP_THVT_100_RND	KEYSTONE	5002	
99	9	TP11 TP13 TP14 TP15 TP19 TP20 TP21 TP22 TP23	BLU	TP_THVT_100_RND	KEYSTONE	5117	
100	1	U1	TPS2400	SOT_23_5	TI	TPS2400DBV	
101	2	U2 U4	TPS7A8001DRB	SON_8_3MMx3MM_OP65MM	TI	TPS7A8001DRB	
102	1	U3	TPS62420	SON_10_3MMx3MM_OP50MM	TI	TPS62420DRCR	
103	1	U5	LP2985-50	SOT_5_120X69_OP95MM	TI	LP2985-50DBVR	
104	1	U6	FT245RL	ssop_28_413x220_26	FTDI Chip	FT245RL-REEL	
105	1	U8	THS770006	QFN_24_163x163_0p50mm_RGE	Texas Instruments	THS770006IRGET	
106	1	U9	THS4509	QFN_16_124X124_PWRPAD	TI	THS4509RGT	
107	1	U10	LMH6554	QFN_14_98X98_OP4MM_LLP	TI	LMH6554LE	
108	1	U11	LMH6881	WQFN_24_157X157_OP50MM	TI	LMH6881SQE/NOPB	
109	1	U7	ADS4449	BGA_144_10MMx10MM_OP80MM	TI	ADS4449IZCR	
110	1		BARE BOARD, ADS4449 AMP I/F		VIASYSTEMS	ADS4449 AMP I/F REV B	
111	4		PANHEAD SCREW 4-40 x 3/8"		Building Fasteners	PMSSS 440 0038 PH	SCREW FOR STANDOFF
112	13		SHUNT-HEADER		KELTRON	MJ-5.97-G or equivalent	SHUNT FOR HEADER
113	1		SHUNT-JUMPER-0603		PANASONIC	ERJ-3GE0R00X	SHUNT FOR JUMPER
114	4		STANDOFF ALUM HEX 4-40 x 1/2"	STANDOFF_HEX_4-40	KEYSTONE	2203	STANDOFF

NOTES:

1. DNI MEANS DO NOT INSTALL THIS COMPONENT.
2. USE WATER SOLUBLE FLUX DURING BOARD ASSEMBLY.
3. ASSEMBLY MUST BE LEAD FREE AND RoHS COMPLIANT.
4. INSTALL ITEM 112:
 JP2, JP3, JP5, JP6, JP8, JP10, JP13 & JP15
 PINS 1-2

 JP7, JP9, JP11, JP12 & JP14
 PINS 2-3
5. INSTALL ITEM 113:
 SJP1 PINS 1-2

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