

ADS42BXX EVM BOM rev C

ADS42B29/42B49

Item	#	Reference	Note	Part	Foot Print	Part Number	Manufacturer	Tol	Volt	Rating	DCR	Comments
1	30	C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C21,C25,C27,C31,C33,C39,C40,C42,C60,C66,C72,C73,C88,C89,C90,C91,C95,C98,C99,C135		.1uF	402	GRM155R61A104KA01D	Murata	10%	10V			
2	8	C24,C26,C30,C32,C34,C35,C36,C38		10uF	603	GRM188R60J106ME47D	Murata	20%	6.3V			
3	22	L6,L7,L9,L22,C28,R30,R33,C41,R47,C62,R65,R67,R93,R94,R97,R98,C100,R119,R123,R130,R141,R143		0 ohm	402	RMCF 1/16S 0 R	Stackpole Electronics Inc	5%		1/16W		
3a	0	R34,R72,R148	DNI	0 ohm	402	RMCF 1/16S 0 R	Stackpole Electronics Inc	5%		1/16W		
4	0	C29,C43,C61,C101,C122	DNI	.1uF	402	GRM155R61A104KA01D	Murata	10%	10V			
5	19	C44,C45,C48,C49,C50,C52,C53,C54,C55,C56,C57,C58,C59,C67,C94,C160,C161,C162,C163		10nF	402	C0402C103K4R ACTU	Kemet	10%	16V			
6	8	C46,C81,C82,C103,C106,C144,C149,C171		10uF	805	ECJ-2FB1A106K	Panasonic	10%	10V			
7	6	C47,C64,C104,C110,C158,C169		33UF	TANT_B	TR3B336K016C0500	Vishay/Sprague	10%	16V			
8	2	C51,C102		0.22uF	603			10%	16V			
9	6	C63,C76,C84,C164,C165,C166		10uF	805	GRM188R60J106ME47D	Murata	20%	6.3V			
10	2	C65,C69		3.3pF	402	GRM1555C1H3R3CZ01D	Murata	.25pF	50V			
11	8	C68,C78,C80,C83,C105,C147,C159,C170		.1uF	402	ECJ-0EB1C104K	Panasosnic	10%	16V			
12	0	C70,C71	DNI	5.6pF	402	GJM1555C1H5R6CB01D	Murata	+/- .25pF	50V			
13	0	C74,C75	DNI	5.6pF	402	GJM1555C1H5R6CB01D	Murata					
14	1	C77		33UF	TANT_B	TPSB336K016R0350	AVX	10%	16V			update 8-23-12 from ECS-T1AX336R
15	1	C79		33UF	TANT_B	TPSB336K016R0350	AVX	10%	16V			update 8-23-12 from ECS-T1AX336R
16	2	C85,C167		.01uF	402	GCM155R71H103KA55D	Murata	10%	50V			
17	2	C86,C168		4.7uF	603	C0603C475K8P ACTU	Kemet	10%	10V			
18	4	C87,C142,C152,C154		.1uF	402	ECJ-0EB1C104K	Panasonic	10%	16V			
19	1	C92		100pF	402	ECJ-0EC1H101J	Panasonic	5%	50V			
20	1	C93		22uF	805	ECJ-2FB0J226M	Panasonic	20%	6.3V			
21	3	C96,C97,C148		2.2uF	603	C1608X5R1C225K	TDK	10%	16V			

22	3	C107,C108,C120		10nF	201	ECJ-ZEB1A103K	Panasonic	10V	10V			
23	2	C109,C119		10nF	402	GRM155R71H103KA88D	Murata	10%	50V			
24	2	C111,C146		1uF	603	ECJ-1V41E105M	Panasonic	20%	25V			
25	5	C112,C115,C117,C127,C129		.022uF	201	GRM033R60J223KE01D	Murata	10%	6.3V			
26	5	C113,C116,C118,C128,C130		100pF	201	GRM0337U1E101JD01D	Murata	5%	25V			
27	0	C114,C132	DNI	22pF	402	GRM1555C1H220JZ01D	Murata	5%	50V			
28	5	C121,C123,C124,C125,C126		47nF	201	C0603X5R0J473K	TDK	10%	6.3V			
29	2	C131,C133		1pF	402	1pF	Murata	.25pF	50V			
30	2	C134,C137		0 ohm	603	RMCF 1/16 0 R	Stackpole Electronics Inc	5%		1/16W		
31	4	C136,C138,C140,C141		10nF	201	10nF	Panasonic	10V	10V			
32	1	C139		47nF	201	47nF	TDK	10%	6.3V			
33	1	C143		47uF	tant_b	T491B476M010AT	Kemet	20%	10V			
34	1	C145		.01uF	402	ECJ-0EB1E103K	Panasonic	10%	25V			
35	2	C150,C153		47pF	402	ECJ-0EC1H470J	Panasonic	5%	50V			
36	4	C151,C185,C186,C187		4.7uF	tant_a	TAJA475K020R	AVX	10%	20V			
37	3	C155,C156,C157		10nF	402	C0402C103K3RACTU	Panasonic	10%	25V			
38	2	C190,C191		22pF	402	500R07S220GV4T	Johansen Technology	2%	50V			
39	1	D2		Blue	LED_0805	LTST-C170TBKT	Lite On					
40	1	D3		BLUE DIFUSED	DIODE_SM_HSMN_C170	HSMN-C170	AVAGO					
41	2	FB1,FB7		68 OHM @ 100MHz	1206	EXC-ML32A680U	Panasonic					
42	6	FB14,FB15,FB16,FB17,FB18,FB20		1K @ 100MHz	1810	BLM41PG102SN1L	Murata			1.5A	150 mOhm	
43	1	FB19		27uF	1206_BEAD_NFM31P	NFM31PC276B0J3	MURATA				5mOhm	
44	0	FLT1	DNI	491.52MHz	FILTER_8_SM_150x150	TF2-Q5EC1	Toyocom					
45	2	JP3,JP4	(SHUNT 2-3)	HEADER_1x3_100 430L	HDR_THVT_1x3_100_M	HMTSW-103-07-G-S-240	SAMTEC					
46	11	JP5,JP6,JP7,JP8,JP9,JP10,JP11,JP18,JP23,JP24,JP25	(SHUNT 1-2)	HEADER_1x3_100 430L	HDR_THVT_1X3_100	22-28-4030	Molex					
47	1	JP12	(SHUNT 1-2)	HEADER 4x2	hdr4X2_100 ctr	90131-0124	Molex					
48	1	JP13		HEADER 4x2	hdr4X2_100 ctr	90131-0124	Molex					
49	1	JP14	(SHUNT 7-8)	HEADER 4x2	hdr4X2_100 ctr	90131-0124	Molex					

50	6	JP15,JP16,JP17,JP19,JP28,JP29	(SHUNT 1-2)	HEADER 3POS	HDR_THVT_1x3_100_M	HMTSW-103-07-G-S-240	SAMTEC						
51	2	JP20,JP21	SHORT 1-2	Jumper_1x3	HDR_THVT_1x3_100	22-28-4030	Molex						
52	1	JP22	(SHUNT 1-2)	HEADER 3POS	HDR_THVT_1X3_100	22-28-4030	Molex						
53	3	JP26,JP27,JP30	OPEN	HEADER 2POS	JUMPER2	22-28-4020	Molex						
54	2	J1,J2		Header 2X20 .1ctr	HDR_THVT_2x20_100_F	HMTSW-120-07-G-D-240	SAMTEC						
55	3	J3,J6,J19		SMA	SMA_THVT_320x320	142-0701-201	Johnson Components						
56	0	J7,J9	DNI	SMA	SMA_THVT_320x320	142-0701-201	Johnson Components						
57	1	J8		CONN_QTH_30X2-D-A	CON_SMVT_120POS_QTH_SAMTE	QTH-060-02-F-D-A	SAMTEC						
58	3	J10,J11,J13		RED	CON_THVT_BANANA_JACK_250DI	ST-351A	ALLIED ELECTRONIC S						
59	1	J12		BLK	CON_THVT_BANANA_JACK_250DI	ST-351B	ALLIED ELECTRONIC S						
60	1	J14		HEADER 2POS	JUMPER2	22-28-4020	Molex						
61	1	J17		USB_MINI_AB	CON_SMRT_USBMNE20_F	DX3R005HN2E700	JAE						
62	1	J18	(NO SHUNT)	Jumper_1x3	HDR_THVT_1x3_100_M	22-28-4030	Molex						
63	0	J20	DNI	SMA_END_JACK_RND	SMA_SMEL_250x215	142-0711-821	Johnson Components						
64	1	J21		SMA_END_JACK_RND	SMA_SMEL_250x215	142-0711-821	Johnson Components						
65	1	J22		HMTSW-105-07-G-D-.240	HDR_THVT_2x5_100_M	HMTSW-105-07-G-D-.240	SAMTEC						
66	1	J23		CONN JACK_PWR	CON_RAPC722_JACK_THVT_3	RAPC722	Switchcraft						
67	0	L5,L8,L10,L27	DNI	TBD	603								
68	0	L11,L12	DNI	72nH	603	AISC-0603-R072J	Abracon	5%					
69	1	L13		68nH	1206	EXC-ML32A680U	Panasonic						
70	2	L14,L15		180nH	603	ELJ-RER18JF3	Panasonic	5%					
71	6	L16,L17,L18,L19,L20,L21		68	1206	EXC-ML32A680U	Panasonic						
72	1	L25		2.2uH	LPS3015	LPS3015-222ML	Coilcraft						
73	1	L26		2.2uH	LPS3015	LPS3015-222ML	Coilcraft						or Murata LQH3NPN2R2NJ0L
74	1	Q1		FDC3616N	SSOT6_FLM P	FDC3616N	Fairchild Semiconductor						

75	4	RN1,RN2,RN3,RN4		22	rnet8_16_06 03	742C163220JPT R	CTS	5%		62.5m W		
76	8	RN5,RN6,RN7,RN8,RN9,RN10,RN11,R N12		0	rnet4_8_060 3	MNR14E0APJ00 0	Rohm Semiconductor	5%		62.5m W		
77	0	R4,R7,R10,R13,R76	DNI	49.9	402	RMCF 1/16S 49.9 1% R	Stackpole Electronics Inc	1%		1/16W		
78	4	R5,R6,R11,R12		24.9	402	RC0402FR- 0724R9L	Yageo	1%		1/16W		
79	4	R15,R17,R20,R38		348	402	ERJ-2RKF3480X	Panasonic	1%		1/10W		
80	4	R16,R18,R22,R36		68	603	RC0603FR- 0768RL	Yageo Corporation	1%		1/10W		
81	0	R19,R40,R42,R51,R104	DNI	49.9	603	ERJ- 3EKF49R9V	Panasonic	1%		1/10W		
82	4	R21,R24,R37,R39		100	603	ERJ-3EKF1000V	Panasonic	1%		1/10W		
83	2	R23,R35		10K	603	RMCF 1/16S 10K 1% R	Stackpole Electronics Inc	1%		1/10W		
84	0	R25,R26,R60,R71	DNI	49.9	402	RMCF 1/16S 49.9 1% R	Stackpole Electronics Inc	1%		1/16W		
85	4	R27,R28,R29,R59		4.99	402	CRCW04024R99 FKED	Vishay/Dale	1%		1/16W		
86	3	R31,R44,R48		2K	402	ERJ-2RKF2001X	Panasonic	1%		1/16W		
87	6	R32,R43,R45,R46,R49,R50		3K	402	ERJ-2RKF3001X	Panasonic	1%		1/16W		
88	2	R52,R53		10K	402	RMCF 1/16S 10K 1% R	Stackpole Electronics Inc	1%		1/16W		
89	0	R34,R72,R148,R54	DNI	0 ohm	402	RC0402JR- 070RL	Yageo	5%		1/16W		
90	1	R55		1K	402	RMCF 1/16 1K 1% R	Stackpole Electronics Inc	1%		1/16W		
91	1	R56		10	402	RMCF 1/16S 10 1% R	Stackpole Electronics Inc	1%		1/16W		
92	0	R66,R68,R69,R70,R95,R96,R99,R114,R 115,R120,R129,R131,R132	DNI	0 ohm	402	RMCF 1/16S 0 R	Stackpole Electronics Inc	5%		1/16W		
92A	5	R149,R150,R151,R152,R153		0 ohm	402	RMCF 1/16S 0 R	Stackpole Electronics Inc	5%		1/16W		
93	10	R73,R74,R75,R77,R82,R86,R87,R91,R1 06,R111		10K	603	CRCW060310K0 FKEA	DALE	1%		1/10W		
94	0	R78,R79,R84,R85,R89	DNI	10K	603	CRCW060310K0 FKEA	DALE	1%		1/10W		
95	1	R80		750	603	CRCW0603750R FKEA	DALE					
96	2	R81,R105		100	603	CRCW0603100R FKEA	DALE	1%		1/10W		
97	1	R83		0 ohm	603	CRCW06030000 Z0EA	DALE	5%		1/10W		
98	1	R88		7.15K	603	RT0603DRD077 K15L	Yageo	0.50%		1/10W		
99	2	R90,R103		121	603	ERJ-3EKF1210V	Panasonic	1%		1/10W		
100	0	R92	DNI	130	603	CRCW0603130R FKEA	DALE	1%		1/10W		
101	2	R100,R101		150	402	CRCW0402150R FKED	DALE	1%		1/16W		

102	0	R102	DNI	130	603	CRCW0603130R FKEA	DALE	1%		1/10W		
103	2	R107,R109		82	603	CRCW060382R0 FKEA	DALE	1%		1/10W		
104	2	R108,R110		130	603	CRCW0603130R FKEA	DALE	1%		1/10W		
105	1	R112		360K	402	RC0402FR- 07360KL	Yageo	1%		1/16W		
106	1	R113		180K	402	RC0402FR- 07180KL	Yageo	1%		1/16W		
107	2	R116,R147		0	402	RC0402JR- 070RL	Yageo	1%		1/16W		
108	0	R117,R154	DNI	R	402	RC0402JR- 070RL	Yageo	1%		1/16W		
109	2	R118,R144		0 ohm	402	RC0402JR- 070RL	Yageo	5%		1/16W		
110	1	R121		0 ohm	603	RC0603JR- 070RL	Yageo	5%		1/10W		
111	0	R122	DNI	0 ohm	603	RC0603JR- 070RL	Yageo	5%		1/10W		
112	4	R124,R125,R126,R127		0	402	ERJ-2GE0R00X	Panasonic	5%				
113	0	R128,R133,R135,R137,R139	DNI	0	402	ERJ-2GE0R00X	Panasonic	5%				
114	0	R134,R136,R138,R140	DNI	0	402	ERJ-2GE0R00X	Panasonic	5%				
115	1	R142		10K	603	ERJ-3EKF1002V	Panasonic	1%		1/10W		
116	1	R145		820K	402	ERJ-2RKF8203X	Panasonic	1%		1/16W		
117	1	R146		182K	402	ERJ-2RKF1823X	Panasonic	1%		1/16W		
118	1	SJP6	(SHUNT 3-4)	JUMPER_3X2_S MT	smd_3x2_04 02	NO PARTS						
119	1	SJP7	(SHUNT 1-2)	JUMPER_3X2_S MT	smd_3x2_04 02	NO PARTS						
120	1	SW1		SW PUSHBUTTON	SW_RESET _PTS635	PTS635SL43	ITT Industries/C&K Div					
121	1	SW3		RESET	SW_THVT_ SPST_PTS6 35SL43	PTS635SL43	ITT Industries/C&K Div					
122	2	TP1,TP8		Test Point White	testpoint	5002	Keystone					
123	2	TP2,TP7		Test Point Black	testpoint	5001	Keystone					
124	2	TP9,TP14		Test Point Black	testpoint_40 dia	5001	Keystone					
125	3	TP10,TP11,TP13		Test Point White	testpoint_40 dia	5002	Keystone					
126	1	TP12		Test Point Black	testpoint_40 dia	5002	Keystone					
127	4	T1,T2,T3,T4		WBC1-1	TFMR_6_RF_ DUAL_FO OTPRINT	WBC1-1TL	Coilcraft					
128	1	T6		ADT4-1WT	TFMR_6_RF_ DUAL_FO OTPRINT	ADT4-1WT	Minicircuits					
129	2	U1,U3	TI Supplied	THS4509	QFN16	THS4509RGTT	TI					

130	1	U2		ADS42B29 or ADS42B49	QFN64	ADS42B29IRGC or ADS42B49IRGC	TI						
131	1	U6		FT245RL	ssop_28_41 3x221 26	FT245RL	FTDI Chip						
132	1	U10	TI Supplied	CDCE72010	QFN64	CDCE72010RG CT	TI						
133	0	U12,U13	DNI	SN74AVC16T245	TSSOP_48_ 496x244 20	SN74AVC16244 DGGR	Texas Instruments						
134	1	U14		TPS79618	SOT_223_6 TG	TPS79618DCQ	Texas Instruments						
135	2	U15,U17		TPS62590	SON_DRV_ 6	TPS62590DRVT	Texas Instruments						
136	1	U16		TPS79633	SOT_223_6 TG	TPS79633DCQ	Texas Instruments						
137	2	U18,U21	TI_Supplied	TPS79633	SOT_223_6 TG	TPS79633DCQ	Texas Instruments						
138	1	U19	TI_Supplied	TPS79618	SOT_223_6 TG	TPS79618DCQ	Texas Instruments						
139	1	U20		TPS2400	DBV5	TPS2400DBVT	Texas Instruments						
140	0	VCXO1	DNI	TCO- 2111T@983.04M H7	VCXO_6_C USTOM2	TCO- 2111T@491.52M H7	Toyocom						
141	4	Z_SCREW1,Z_SCREW2,Z_SCREW3,Z _SCREW4	SCREW FOR STANDOFF	PANHEAD SCREW 4-40 x 3/8		PMS 440 0038 PH	Building Fasteners						
142	15	Z_SH-H1,Z_SH-H2,Z_SH-H9,Z_SH- H10,Z_SH-H13,Z_SH-H14,Z_SH- H15,Z_SH-H16,Z_SH-JP17,Z_SH- H17,Z_SH-JP18,Z_SH-JP19,Z_SH- H19,Z_SH-JP20,Z_SH-H20	SHUNT FOR HEADER	SHUNT-HEADER		MJ-5.97-G or equivalent	Keltron						
143	7	Z_SH-H4,Z_SH-H5,Z_SH-H6,Z_SH- H7,Z_SH-H8,Z_SH-H11,Z_SH-H12	SHUNT FOR HEADER	SHUNT-HEADER	HDR_THVT_ 1X3 100	MJ-5.97-G or equivalent	Keltron						
144	2	Z_SH-J4,Z_SH-J12	SHUNT FOR JUMPER	SHUNT-HEADER		MJ-5.97-G or equivalent	Keltron						
145	2	Z_SH-J5,Z_SH-J6	SHUNT FOR JUMPER	SHUNT-JUMPER- 0603		ERJ-3GE0R00X	Panasonic						
146	4	Z_STANDOFF1,Z_STANDOFF2,Z_STA NDOFF3,Z_STANDOFF4	STANDOFF	STANDOFF ALUM HEX 4-40 x .500		2203	Keystone						

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