

# EVAL-AD2428WB1BZ Evaluation Board Bill of Materials

ITEM#	Qty	LOCATION	DESCRIPTION	VALUE	MFG	MFG_PN
1	19	C10 C12 C15 C24 C38 C40 C45 C47-48 C55 C57 C62- 64 C68 C77 C81 C92 C126	Multilayer Ceramic 35V X7R (0402)	0.10uF	TDK Corp	CGA2B3X7R1V104K050BB
2	1	C65	Multilayer Ceramic 35V X7R (0402)	0.10uF	TDK Corp	CGA2B3X7R1V104K050BB
3	1	C7	Multilayer Ceramic 50V X7R (0603)	0.47uF	TDK Corp	C1608X7R1H474K080AC
4	1	C9	Multilayer Ceramic 50V X7R (0603)	0.47uF	TDK Corp	CGA3E3X7R1H474K080AE
5	2	R18 R26	Chip Resistor 5% 100mW Thick Film 0402	0R00	Panasonic ECG	ERJ-2GE0R00X
6	1	R35	Chip Resistor 5% 125mW Thick Film 0805	0R00	Panasonic EC	ERJ-6GEY0R00V
7	4	R29 R38 R40- 41	Chip Resistor 1% 100mW Thick Film 0402	100k	Panasonic ECG	ERJ-2RKF1003X
8	3	R12 R46-47	Chip Resistor 1% 100mW Thick Film 0402	10k0	Panasonic ECG	ERJ-2RKF1002X
9	4	C2-5	Multilayer Ceramic 50V NP0 (0603) AEC-Q200	10nF	TDK Corp	CGA3E2C0G1H103J080AA
10	1	C11	Multilayer Ceramic 50V X7R (0402)	10nF	Murata	CGA2B3X7R1H103K050BB
11	7	C36 C69 C74 C76 C79 C125 C127	Multilayer Ceramic 50V X7R (0402)	10nF	Murata	CGA2B3X7R1H103K050BB
12	8	C6 C41 C59 C61 C66-67 C121-122	Multilayer Ceramic 10V X7R (0805)	10uF	Murata ENA	GRM21BR71A106KA73K
13	4	R1-4	Chip Resistor 1% 500mW Thick Film 1210	113R	Panasonic EC	ERJ-14NF1130U
14	2	C72-73	Multilayer Ceramic 50V NP0 (0402)	12pF	Murata ENA	GRM1555C1H120JZ01D
15	1	C60	Multilayer Ceramic 50V X7R (0402)	15nF	TDK Corp	CGA2B3X7R1H153K050BB
16	3	R6 R24 R39	Chip Resistor 1% 63mW Thick Film 0402	1k00	Yageo	RC0402FR-071KL
17	1	R47	Chip Resistor 1% 63mW Thick Film 0402	1k00	Yageo	RC0402FR-071KL
18	1	U5	512K I2C™ CMOS Serial EEPROM	24AA512-I/ST	Microchip	24AA512-I/ST
19	4	C86-89	Multilayer Ceramic 50V NP0 (0402)	27pF	Murata ENA	GRM1555C1H270JZ01D
20	1	C8	Multilayer Ceramic 50V X7R (0402)	3.3nF	Murata ENA	GCM155R71H332KA37D
21	1	R5	Chip Resistor 1% 63mW Thick Film 0402	33k2	Vishay Dale	RC0402FR-033K2
22	8	C1 C51-54 C70-71 C91	Multilayer Ceramic 50V X7R (0402)	33nF	TDK Corp	CGA2B3X7R1H333K050BB
23	1	C13	Multilayer Ceramic 50V NP0 (0402)	33pF	Murata ENA	GCM1555C1H330JA16D
24	6	C29-30 C33- 34 C37 C43	Multilayer Ceramic 50V NP0 (0402)	33pF	Murata ENA	GCM1555C1H330JA16D
25	2	R8 R30	Chip Resistor 1% 63mW Thick Film 0402	33R2	Stackpole	RMCF0402FT33R2
26	9	R15-17 R20- 21 R23 R28 R13 R32	Chip Resistor 1% 63mW Thick Film 0402	33R2	Stackpole	RMCF0402FT33R2
27	3	R7 R43 R45	Chip Resistor 1% 63mW Thick Film 0402	3k32	Stackpole	RMCF0402FT3K32
28	2	C56 C58	CAP CER 4.7UF 16V X7R 0805	4.7uF	TDK Corp	CGA4J3X7R1C475K125AB
29	3	C20-21 C93	CAP CER 4.7UF 6.3V 10% X7R 0603	4.7uF	Samsung Electro-Mechanics	CL10B475KQ8NQNC

30	6	C18 C22-23 C31 C39 C75	Multilayer Ceramic 50V X7R (0402)	4700pF	TDK Corp	CGA2B2X7R1H472K050BA
31	3	C14 C123-124	SMD Tantalum Capacitor SMD D 6.3V	470uF	Vishay/Sprague	TR3D477M6R3C0200
32	2	R22 R27	Chip Resistor 1% 63mW Thick Film 0402	475R	Stackpole	RMCF0402FT475R
33	1	U3	Automotive Audio Bus A <sup>2</sup> B Transceiver	AD2428WCCSZ	Analog Devices, Inc	AD2428WCCSZ
34	1	U1	2 ADC 2 DAC with PLL 96 kHz 24-bit CODEC w/ SigmaDSP	ADAU1761BCPZ	Analog Devices, Inc.	ADAU1761BCPZ
35	2	J1-2	CONN JACK STEREO 5POS 3.5MM PCB	SJ1-3525NG	CUI Inc.	SJ1-3525NG
36	1	D4	ESD TVS PROTECTION DIODE	TPSMF4L28A	LITTLEFUSE	TPSMF4L28A
37	1	PMOS1	MOSFET P-CH 30V 3.8 A SOT-23	DMP3098L-7	Diodes Incorporated	DMP3098L-7
38	2	L21-22	Chip Ferrite Bead 600 Ohm @ 100 MHz 300mA 0402	600 Ohm @ 100 MHz	TDK Corp	MMZ1005S601C
39	4	L5 L8 L23-24	Chip Ferrite Bead 600 Ohm @ 100 MHz	600 Ohm @ 100 MHz	TDK Corp	MPZ1608S601ATD25
40	1	J4	DNP!! 12-way Unshrouded	2x6	3M	PBC06DAAN, or cut PBC36DAAN
41	2	J7-8	2-pin Header R/A 2mm Gold	502352-0200	Molex	502352-0200
42	4	L17-20	0 ohm 0402 resistor	0-OHM	PANASONIC ECG	ERJ-2GE0R00X
43	4	L1-4	inductor SMT	180nH	TDK	MLG1005SR18JTD25-ND
44	1	D9	Green 3 millicandela 571 nm 0603	Green	Lite-On Inc	LTST-C191KGKT
45	1	D8	Red 25millicandela 660nm 0603	Red	Dialight	5975112407F
46	4	FB3-4 FB1A FB2A	Fixed Inductors 0805 3.3uH 0.2ohms 350mA AEC-Q200	3.3 uH	TDK Corporation	MLZ2012M3R3HTD25
47	2	FB1B FB2B	Fixed Inductors 0805 3.3uH 0.2ohms 350mA AEC-Q200	DNP	TDK Corporation	MLZ2012M3R3HTD25
48	2	MH1-2	6-32 Nylon Screw and 1/2" Standoff	Screw&Standoff	Building Fasteners & Keystone	NY PMS 632 0025 PH & 1903C
49	1	R10	--Not Populated-- Resistor 0402	OPEN	N/A	N/A
50	1	R9	--Not Populated-- Resistor 0402	OPEN	N/A	N/A
51	10	C42 C80 C84- 85 C94-99	--Not Populated-- Capacitor 0402	OPEN	N/A	N/A
52	4	C106-109	--Not Populated-- Capacitor 0402	OPEN	N/A	N/A
53	1	C113	--Not Populated-- Capacitor 0602	OPEN	N/A	N/A
54	1	J3	3-way Socket 2mm Single Row	DNP	Norcomp	25630301RP2
55	1	S1	Tact Switch 6mm Gull Wing	SPST-NO	Tyco/Alcoswitch	FSM6JSMA
56	2	CM1-2	Common Mode Choke	100 uH	TDK Corp	ACT1210L-101-2P-TL00
57	6	TP7-12	--Not populated-- Gold Pad Only 30MIL	OPEN	N/A	N/A
58	2	M1-2	Digital Microphone SMD	INMP621	TDK Corporation	INMP621ACEZ
59	1	D1	Schottky 40V 0.4A SOD323 Diode	ZHCS400TA	Diodes, Inc	ZHCS400TA