

EVAL-AD2428WG1BZ Evaluation Board Bill of Materials

ITEM #	Qty	LOCATION	DESCRIPTION	VALUE	MFG	MFG_PN
1	21	C7 C14-16 C20 C24 C32 C34 C38 C40 C42 C44 C62-64 C68 C70 C72-73 C76 C81	Multilayer Ceramic 35V X7R (0402)	0.10uF	TDK Corp	CGA2B3X7R1V104K050 BB
2	1	C65	Multilayer Ceramic 35V X7R (0402)	0.10uF	TDK Corp	CGA2B3X7R1V104K050 BB
3	2	C85-86	Multilayer Ceramic 16V X7R (0603)	0.33uF	Murata ENA	GRM188R71C334KA01 D
4	1	C87	Multilayer Ceramic 50V X7R (0603)	0.47uF	TDK Corp	C1608X7R1H474K080A C
5	1	R18	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	1	C17	MLCC 50V X7R (1206)	1.0uF	Murata	GCM31MR71H105KA55 L
8	4	R1-2 R4 R6	Chip Resistor 1% 100mW Thick Film 0402	100k	Panasonic ECG	ERJ-2RKF1003X
9	2	R9 R56	Chip Resistor 1% 100mW Thick Film 0402	100k	Panasonic ECG	ERJ-2RKF1003X
10	6	R12 R25 R46-47 R52 R55	Chip Resistor 1% 100mW Thick Film 0402	10k0	Panasonic ECG	ERJ-2RKF1002X
11	4	C53-56	Multilayer Ceramic 50V NP0 (0603) AEC-Q200	10nF	TDK Corp	CGA3E2C0G1H103J080 AA
12	8	C6 C8 C10 C21 C60 C69 C79 C83	Multilayer Ceramic 50V X7R (0402)	10nF	Murata	CGA2B3X7R1H103K050 BB
13	1	C11	Multilayer Ceramic 50V X7R (0402)	10nF	Murata	CGA2B3X7R1H103K050 BB
14	7	C1-2 C59 C66-67 C75 C84	Multilayer Ceramic 10V X7R (0805)	10uF	Murata ENA	GRM21BR71A106KA73 K
15	1	C13	Multilayer Ceramic 50V X7R (1210)	10uF	TDK Corporation	C3225X7R1H106M250 AC
16	1	C28	Multilayer Ceramic 50V X7R (1210)	10uF	TDK Corporation	C3225X7R1H106M250 AC
17	4	R38-41	Chip Resistor 1% 500mW Thick Film 1210	120R	Vishay Dale	CRCW1210120RFKEA
18	2	C45-46	Multilayer Ceramic 50V NP0 (0402)	12pF	Murata ENA	GRM1555C1H120JZ01D
19	1	C36	Multilayer Ceramic 50V X7R (0402)	15nF	TDK Corp	CGA2B3X7R1H153K050 BB
20	3	R3 R5 R29	Chip Resistor 1% 63mW Thick Film 0402	1k00	Yageo	RC0402FR-071KL
21	2	R19 R14	Chip Resistor 1% 63mW Thick Film 0402	1k00	Yageo	RC0402FR-071KL
22	1	D2	Diode Standard 75V 150mA Surface Mount SOD-323	1N4148	Diodes Incorporated	1N4148WSQ-7-F
23	1	R34	RES SMD 1 OHM 5% 1/8W 0805	1R00	PANASONIC	ERJ-6GEYJ1R0V

24	1	R10	Chip Resistor 1% 63mW Thick Film 0402	20k0	Yageo	RC0402FR-0720KL
25	2	C3 C9	Multilayer Ceramic 50V NP0 (0402)	22pF	TDK Corp	CGA2B2C0G1H220J050 BA
26	6	C19 C25-26 C47-48 C61	Multilayer Ceramic 16V X7R (1210)	22uF	Murata ENA	G CJ32ER71C226KE01L
27	1	C27	Multilayer Ceramic 16V X7R (1210)	22uF	Murata ENA	G CJ32ER71C226KE01L
28	1	U5	512K I2C™ CMOS Serial EEPROM	24AA512-I/ST	Microchip	24AA512-I/ST
29	4	C101-102 C104-105	Multilayer Ceramic 50V NP0 (0402)	27pF	Murata ENA	GRM1555C1H270JZ01D
30	2	R42 R44	Chip Resistor 1% 125mW Thick Film 0805	2k00	Panasonic EC	ERJ-6ENF2001V
31	1	J9	TERM BLOCK PCB 2POS 5.08MM BLACK	1760510000	Weidmuller	1760510000
32	1	C35	Multilayer Ceramic 50V X7R (0402)	3.3nF	Murata ENA	GCM155R71H332KA37 D
33	1	R24	Chip Resistor 1% 63mW Thick Film 0402	33k2	Vishay Dale	RC0402FR-033K2
34	10	C49-52 C78 C88 C90-93	Multilayer Ceramic 50V X7R (0402)	33nF	TDK Corp	CGA2B3X7R1H333K050 BB
35	6	C12 C18 C29-30 C33 C37	Multilayer Ceramic 50V NP0 (0402)	33pF	Murata ENA	GCM1555C1H330JA16 D
36	9	R13 R15-17 R20-21 R23 R28 R32	Chip Resistor 1% 63mW Thick Film 0402	33R2	Stackpole	RMCF0402FT33R2
37	3	R30 R43 R45	Chip Resistor 1% 63mW Thick Film 0402	3k32	Stackpole	RMCF0402FT3K32
38	1	D16	Zener Diode 3.3V 250mW ±5% Surface Mount SOT-23	DNP	NXP	BZX84-C3V3,215
39	6	C71 C74 C77 C80 C82 C89	CAP CER 4.7UF 16V X7R 0805	4.7uF	TDK Corp	CGA4J3X7R1C475K125 AB
40	1	L1	4.7µH Shielded Wirewound Inductor 2A 40mOhm Max	4.7uH	EPCOS (TDK)	B82462G4472M
41	1	L2	FIXED IND 4.7UH 6A 20 MOHM SMD	4.7 uH	Würth Elektronik	78477047
42	6	C22-23 C31 C39 C41 C43	Multilayer Ceramic 50V X7R (0402)	4700pF	TDK Corp	CGA2B2X7R1H472K050 BA
43	2	C4-5	SMD Tantalum Capacitor SMD D 6.3V	470uF	Vishay/Sprague	TR3D477M6R3C0200
44	3	R22 R27 R33	Chip Resistor 1% 63mW Thick Film 0402	475R	Stackpole	RMCF0402FT475R
45	1	R26	Chip Resistor 1% 100mW Thick Film 0402	64k9	Panasonic EC	ERJ-2RKF6492X
46	1	R8	Chip Resistor 1% 63mW Thick Film 0402	75k0	Panasonic	ERJ-2RKF7502X
47	1	R7	Chip Resistor 1% 63mW Thick Film 0402	7k15	Yageo	ERJ-2RKF7151X
48	1	U3	Automotive Audio Bus A2B Transceiver	AD2428WCCSZ	Analog Devices, Inc	AD2428WCCSZ
49	1	U1	2 ADC 2 DAC with PLL 96 kHz 24-bit CODEC w/ SigmaDSP	ADAU1761BCPZ	Analog Devices, Inc.	ADAU1761BCPZ
50	2	J1-2	CONN JACK STEREO 5POS 3.5MM PCB	SJ1-3525NG	CUI Inc.	SJ1-3525NG
51	1	D1	Zener Diode 16V 310mW ±2.5% Surface Mount SOD-123	DNP	Diodes Incorporated	DDZ16Q-7
52	1	D17	ESD TVS PROTECTION DIODE	TPSMF4L28A	LITTLEFUSE	TPSMF4L28A

53	1	Q1	MOSFET P-CH 30V 3.8 A SOT-23	DMP3098L-7	Diodes Incorporated	DMP3098L-7
54	6	L3-8	Chip Ferrite Bead 600 Ohm @ 100 MHz	600 Ohm @ 100 MHz	TDK Corp	MPZ1608S601ATD25
55	1	F1	Thin Film Chip Fuse, 32V, 2A, 0603 Surface Mount	SLOW 0.033 Ohm	Bourns Inc.	SF-0603S200-2
56	1	J5	--Not Fitted-- 0.1" 2-Pin Male Header	DNP	Sullins Electronics Corp	PBC02SAAN; or cut PBC36SAAN
57	1	J4	DNP!! 12-way Unshrouded	2x6	3M	PBC06DAAN, or cut PBC36DAAN
58	2	J7-8	2-pin Header R/A 2mm Gold	DuraClik/Mini50 Dual Footprint	Molex	A: 34912-8020, B: 502352-0200
59	4	L17-20	0 ohm 0402 resistor	0-OHM	PANASONIC ECG	ERJ-2GE0R00X
60	4	L21-24	inductor SMT	180nH	TDK	MLG1005SR18JTD25-ND
61	4	D3 D7 D9-10	Green 3 millicandela 571 nm 0603	Green	Lite-On Inc	LTST-C191KGKT
62	1	D8	Red 25millicandela 660nm 0603	Red	Dialight	5975112407F
63	1	U4	1.1A, Low Noise, Low Dropout Linear Regulator	LT1965	Linear Technology	LT1965IMS8E#PBF
64	1	U2	1.2A, Step-Down Switching Regulator	LT3505	Linear Technology	LT3505IMS8E#PBF
65	1	D4	Schottky 30V 0.5A SOD123 Diode	Schottky	On Semiconductor	MBR0530T1G
66	2	D5-6	Schottky Diode 40V 1A		On Semiconductor	MBRA140T3G
67	1	D12	Schottky Diode 30V 4A	MBRS330T3G	On Semiconductor	MBRS330T3G
68	4	MH1-4				
69	8	L9-16	Fixed Inductors 0805 3.3uH 0.2ohms 350mA AEC-Q200	3.3 uH	TDK Corporation	MLZ2012M3R3HTD25
70	2	R11 R51	--Not Populated-- Resistor 0402	OPEN	N/A	N/A
71	1	R31	--Not Populated-- Resistor 0402	OPEN	N/A	N/A
72	1	R50	--Not Populated-- Resistor 0402	OPEN	N/A	N/A
73	10	C57-58 C94-100 C103	--Not Populated-- Capacitor 0402	OPEN	N/A	N/A
74	4	C106-109	--Not Populated-- Capacitor 0402	OPEN	N/A	N/A
75	1	C113	--Not Populated-- Capacitor 0602	OPEN	N/A	N/A
76	1	J6	Mini Power Jack 0.08" R/A TH	RAPC722X	Switchcraft Inc.	RAPC722X
77	1	J3	3-way Socket 2mm Single Row	1x3	Norcomp	25630301RP2
78	1	S2	SPDT Slide Switch PC Mount	SPDT	E-Switch	EG1218
79	1	S1	Tact Switch 6mm Gull Wing	SPST-NO	Tyco/Alcoswitch	FSM6JSMA
80	2	I1-2	Common Mode Choke	100 uH	TDK Corp	ACT1210L-101-2P-TL00
81	5	TP1-2 TP4-6	Mini Test Point White .1" OD	5002	Keystone Electronics	5002
82	1	TP3	Mini Test Point White .1" OD	5002	Keystone Electronics	5002
83	6	TP7-12	--Not populated-- Gold Pad Only 30MIL	OPEN	N/A	N/A

84	1	D11	TVS 22 V 5.6 A SOD-123F	22 V	Littelfuse	SMF22A
85	1	U6	Low Input Current, Phototransistor Output, SOP-4, Mini-Flat Package	VOM618A	Vishay	VOM618A-3T
86	3	D13-15	Schottky 40V 0.4A SOD323 Diode	ZHCS400TA	Diodes, Inc	ZHCS400TA