



## Bill of Materials for the ADT7462EBZEV B Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2	2	Capacitor	22pF, 50V	± 5%	0603	Multicomp	U0603C220JCT	Yes	Yes
C3, C4, C5, C6, C8, C9, C10, C11, C15, C16, C19, C20, C37, C38, C39, C40	16	Capacitor	0.1uF, 25V	-20%, +80%	0603	Multicomp	T0603F104ZCT	Yes	Yes
C7, C13, C14, C17, C21, C42	6	Capacitor+	10uF, 10V	± 10%	Capacitor\TAJ_A	Kemet	B45196H2106K109	Yes	Yes
C12	1	Capacitor+	0.33uF, 35V	± 10%	Capacitor\TAJ_A	AVX	TAJA334K035RNJ	Yes	Yes
C41	1	Capacitor+	2.2uF, 10V	± 10%	Capacitor\TAJ_A	Kemet	B45196E2225K109	Yes	Yes
D1, D2, D4, D5	4	Diode-Zener	3V	-	SOT23	NXP Semiconductors	BZX84-C3V0	Yes	Yes
D3, D7, D17	3	LED (Green)	-	-	LED_CHIP	OSRAM Opto Semiconductors	LG T670-L1M2-1-Z	Yes	Yes
D6, D8	2	Diode-Rectifier	~1.5A	-	SOD87	NXP Semiconductors	PRL4001	Yes	Yes
D9, D14, D18, D19	4	LED (Red)	-	-	LED_CHIP	Kingbright	KA-3528SRC	Yes	Yes
D10, D11, D12, D13	4	Diode	-	-	MELF3	STMicroelectronics	TMMBAT48FILM	Yes	Yes
D16	0	Diode-Schottky	Do Not Populate	-	SOT23	Diodes Inc	ZHCS750	Yes	Yes
D22	1	Diode-Schottky	-	-	SOT23	Diodes Inc	ZHCS750	Yes	Yes
FAN1, FAN2	2	Small Panasonic Fan	-	-	34.5mm x 34.5mm	Panasonic	UDQFC3E08-PI	Yes	Yes
J1, J2, J5, J8, J9, J10, J14, J15, J17, J19, J21, J22, J23, J30, J31, J32, J33, J34, J35, J36, J37	21	Terminal Block, PCB, 2-Way	-	-	10mm x 7.5mm	IMO Precision Controls	20.501M/2	Yes	Yes
J3, J6	2	Header	-	-	SIP-3P-1.25MM	Molex	53047-0310	Yes	Yes
J4, J7	2	Header Unshrouded	-	-	SIP-3P-POL	Molex	22-23-2031	Yes	Yes
J11, J13, J26, J28	4	PCB 4-Pin Header	-	-	-	Wieson Technologies	2366C888-007	Yes	Yes
J12, J20, J24, J25	4	CON-SIP-4P_SMD_FAN_CONN	-	-	-	Molex	74099-1004	Yes	Yes
J16	1	HEADER, 4-WAY	-	-	-	TE Connectivity/AMP	350211-1	Yes	Yes
J18	1	Socket, PCB, DC Power	-	-	2.1mm, PK10	Cliff Electronic Components	DC10A	Yes	Yes
J27	1	Socket, USB-B, Single	-	-	-	FCI	61729-0010BLF	Yes	Yes
J29	1	Terminal Block, PCB, 4-Way	-	-	10mm x 7.5mm	IMO Precision Controls	20.501M/4	Yes	Yes
PWM3, PWM4	2	Terminal, PCB, Red	-	-	PK100	Vero	20-313137	Yes	Yes

Q1*, Q2*	2	Transistor, NPN	-	-	TO-92	ON Semiconductor	2N3904ZL1G	No	Yes
Q3, Q5, Q7, Q9, Q11, Q12	6	N-Channel Transistor	-	-	SOT223	Fairchild Semiconductor	NDT3055L	Yes	Yes
R1, R2, R4, R5, R15, R23, R39	7	Resistor	10k, 50V	± 1%	0603	Multicomp	MC 0.063W 0603 1% 10K	Yes	Yes
R3, R11**, R12**, R13**	4	VRes	10k	± 10%	VRes_SMD	Bourns	3214W-1-103E	Yes	Yes
R6, R9, R10, R14	4	Resistor	1k, 50V	± 1%	0603	Multicomp	MC 0.063W 0603 1% 1K	Yes	Yes
R7, R8, R16, R20, R25, R26, R30, 37,38	9	Resistor	10k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 10K	Yes	Yes
R17, R24	2	Resistor	100k, 50V	± 1%	0603	Multicomp	MC 0.063W 0603 1% 100K	Yes	Yes
R18, R22, R28, R31	4	Resistor	100k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 100K	Yes	Yes
R19, R21	2	Resistor	2k2, 50V	± 1%	0603	Multicomp	MC 0.063W 0603 1% 2K2	Yes	Yes
R27	1	Resistor	0R, 50V	-	0603	Multicomp	MC 0.063W 0603 0R	Yes	Yes
R29	1	Resistor	470k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 470K	Yes	Yes
R33	1	Resistor	1k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 1K	Yes	Yes
R34	1	Insulated Wire Strap	-	-	2.7mm	-	-	Yes	Yes
R35*, R36*	2	Resistor	47R, 500V	± 5%	R1/2W	Phoenix Passive Components	PR02-47R 5%	Yes	Yes
R50	1	Resistor	91k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 91K	Yes	Yes
R51, R52	2	Resistor	30k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 30K	Yes	Yes
R53	1	Resistor	56k, 150V	± 1%	0805	Multicomp	MC 0.1W 0805 1% 56K	Yes	Yes
S1, S2, S3, S4	4	SMD Push Switch	-	-	6mm x 6mm	Omron Electronic Components	B3S-1000	Yes	Yes
U1	1	IC	-	-	LFCSP-32	ON Semiconductor	ADT7462ACPZ-REEL7	No	Yes
U2	1	IC	-	-	MSO8	Analog Devices Inc	ADG821BRMZ	No	Yes
U3, U4	2	IC	-	-	TSSOP24	Analog Devices Inc	ADG715BRUZ	No	Yes
U5	1	IC	-	-	SO8NB	Microchip Technology	24LC64T-I/SN	Yes	Yes
U6	1	IC	-	-	CSP-56	Cypress Semiconductor	CY7C68013-56LFC	Yes	Yes
U7	1	IC	-	-	TO-220	ON Semiconductor	MC7805CTG	No	Yes
U8	1	IC	-	-	SO8NB	Analog Devices Inc	ADP3303ARZ-3.3	No	Yes
Y2	1	XTAL1	24 MHz	-	HC49	AEL Crystals	X24M000000L331	Yes	Yes
-	1	Screw w/ Spring Washer to Affix U7	-	-	-	Duratool	SEM02030006FA	Yes	Yes
-	1	Nut to Affix U7	-	-	-	Duratool	1110030	Yes	Yes
-	1	Rubber Feet	-	-	-	3M	SJ5076BLACK	Yes	Yes
-	1	Heat Transfer Compound	-	-	-	Electrolube	HTC10S	Yes	Yes

\*Resistor to be raised from the board to a height in line with the flow of air from the fan and equal to the center of the 2N3904 component. Heat Transfer Compound to be used sparingly to hold both components together.

\*\*Must be an upright Pot. Screw adjuster facing up