

N2ADR Filter Board E5 BOM

Standard Build - July 10, 2018

Reference	Spec	Part No.	Supplier	SKU	Price	Qty	Total
C1,C2,C3,C4,C5,C6, C7,C11,C13,C14,C20, C27,C28,C29,C30,C31, C45,C46,C50	0.1uF 0805 \geq X5R \geq 25V \leq 20%	885012207128	Mouser	710-885012207128	0.08	19	1.58
C8,C10	1000pF 1206NP0 \geq 200V \leq 5%	C1206C102K2GACTU	Mouser	80-C1206C102K2G	0.29	2	0.58
C9,C21,C23	1800pF 1206NP0 \geq 200V \leq 5%	C3216C0G2J182J115AA	Mouser	810-C3216C0G2J182J	0.36	3	1.08
C22	3300pF 1206NP0 \geq 200V \leq 5%	CL31C332JHHNFNE	Digi-Key	1276-3259-1-ND	0.29	1	0.29
C24,C26,C33	150pF 1206NP0 \geq 200V \leq 5%	CC1206JKNPOZBN151	Digi-Key	311-1918-1-ND	0.27	3	0.81
C25,C39	330pF 1206NP0 \geq 200V \leq 5%	C3216C0G2J331J060AA	Mouser	810-C3216C0G2J331J	0.25	2	0.50
C32,C38,C40	270pF 1206NP0 \geq 200V \leq 5%	C3216C0G2J271J060AA	Digi-Key	445-4150-1-ND	0.27	3	0.81
C34,C44	180pF 1206NP0 \geq 200V \leq 5%	CL31C181JHFNNNE	Digi-Key	1276-3223-1-ND	0.28	2	0.56
C35	100pF 1206NP0 \geq 200V \leq 5%	C3216C0G2J101J060AA	Mouser	810-C3216C0G2J101J	0.24	1	0.24
C36	39pF 1206NP0 \geq 200V \leq 5%	GRM31A5C2J390JW01D	Digi-Key	490-11624-1-ND	0.39	1	0.39
C37	560pF 1206NP0 \geq 200V \leq 5%	CC1206JRNPOBBN561	Mouser	603-CC126JRNPOBBN561	0.22	1	0.22
C41,C42	220pF 1206NP0 \geq 200V \leq 5%	C3216C0G2J221J060AA	Mouser	810-C3216C0G2J221J	0.24	2	0.48
C43	68pF 1206NP0 \geq 200V \leq 5%	CL31C680JHFNNNE	Digi-Key	1276-3284-1-ND	0.36	1	0.36
C47,C49	1500pF 0805NP0 \geq 50V \leq 5%	885012007064	Digi-Key	732-7859-1-ND	0.13	2	0.26
C48	680pF 0805NP0 \geq 50V \leq 5%	885012007062	Mouser	710-885012007062	0.10	1	0.10
CN1	External PA Jack	RCJ-041	Mouser	490-RCJ-041	1.36	1	1.36
CN2,CN6	20 Pin Single Row	PRPC040SAAN-RC	Digi-Key	S1011EC-40-ND	0.66	2	1.32
CN3,CN4	SMA Straight	5-1814832-1	Mouser	571-5-1814832-1	1.58	2	3.16
CN7	40 Pin Dual Female	PRPC040SAAN-RC	Digi-Key	S1011EC-40-ND	0.66	1	0.66
D1,D2	Schottky Diode	BAS4007E6327HTSA1	Mouser	726-BAS4007E6327HTSA	0.40	2	0.80
D3	SS Diode	1N4148W-7-F	Mouser	621-1N4148W-F	0.17	1	0.17
FB1	FB 0805 \geq 600R@100MHz \leq 200mOhm@DC \geq 1.5A	ILHB0805ER601V	Mouser	70-ILHB0805ER601V	0.10	1	0.10
JP1	Toroid Wire	400R0111-24-9	Mouser	650-400R0111-24-9	0.16	1	0.16
K1,K2,K3,K4,K5,K6, K7	Relay	EC2-3NU	Digi-Key	399-11042-5-ND	1.73	7	12.11
L1,L2	1.8uH	CC453232-1R8KL	Mouser	652-CC453232-1R8KL	0.34	2	0.68
L3	T37 Toroid	5977000211	Mouser	623-5977000211	0.71	1	0.71
L4,L15	1.8uH	LBM2016T1R8J	Digi-Key	587-3092-1-ND	0.21	2	0.42
L5,L6	3.9uH	7447669039	Mouser	710-7447669039	0.39	2	0.78
L7,L8	220nH	AISC-1210-R22J-T	Mouser	815-AISC-1210-R22J-T	0.32	2	0.64

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L9	1000nH	CC453232-1R0KL	Mouser	652-CC453232-1R0KL	0.31	1	0.31
L10	560nH	AISC-1210-R56J-T	Mouser	815-AISC-1210-R56J-T	0.32	1	0.32
L11,L14	390nH	AISC-1210-R39J-T	Mouser	815-AISC-1210-R39J-T	0.32	2	0.64
L12	680nH	AISC-1210-R68J-T	Mouser	815-AISC-1210-R68J-T	0.32	1	0.32
L13	270nH	AISC-1210-R27J-T	Mouser	815-AISC-1210-R27J-T	0.32	1	0.32
PB1	PCB HL2 Short	PCB Short to HL2	Elecrow	Elecrow	1.00	1	1.00
PB2	Main PCB	PCB Main Board	Elecrow	Elecrow	4.00	1	4.00
R1	22 0805 $\leq 1\% \geq 1/10W$	RC0805FR-0722RL	Digi-Key	311-22.0CRCT-ND	0.10	1	0.10
R2,R10,R13	2.2K 0805 $\leq 1\% \geq 1/10W$	RC0805FR-072K2L	Digi-Key	311-2.20KCRDKR-ND	0.10	3	0.30
R3	56 0805 $\leq 1\% \geq 1/10W$	RC0805FR-0756RL	Digi-Key	311-56.0CRCT-ND	0.10	1	0.10
R4,R5,R8,R9	4.7K 0805 $\leq 1\% \geq 1/10W$	RC2012F472CS	Digi-Key	1276-5308-1-ND	0.10	4	0.40
R6,R7	18 0805 $\leq 1\% \geq 1/10W$	RC0805FR-0718RL	Digi-Key	311-18.0CRCT-ND	0.10	2	0.20
R11,R14	6.2K 0805 $\leq 1\% \geq 1/10W$	RC0805FR-076K2L	Digi-Key	311-6.20KCRCT-ND	0.10	2	0.20
R12,R15	330 0805 $\leq 1\% \geq 1/10W$	RC2012F331CS	Digi-Key	1276-5246-1-ND	0.10	2	0.20
U1	I2C Bus Expander	MCP23008T-E/SS	Digi-Key	MCP23008T-E/SSCT-ND	1.13	1	1.13
U2	Relay Driver	ULN2003LVPWR	Mouser	595-ULN2003LVPWR	0.54	1	0.54
U3	AD8692 Op Amp	AD8692ARMZ-R7	Mouser	584-AD8692ARMZ-R7	1.45	1	1.45
U5	NAND Gate	SN74LVC1G00DBVR	Digi-Key	296-9845-1-ND	0.43	1	0.43

Total Price: \$43.29

Line Items: SMT:38 TH:0 Total:47

Parts: SMT:81 TH:0 Total:98

Pins: SMT:207 TH:0 Total:453

Do Not Include: C12 C15 CN5 R16 RV1