

## N2ADR Filter Board E5 BOM

Standard Build - February 24, 2019

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%	<a href="#">885012207128</a>	<a href="#">Digi-Key</a>	<a href="#">732-12244-1-ND</a>	0.08	19	1.56
C8,C10	1000pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">885342008003</a>	<a href="#">Mouser</a>	710-885342008003	0.26	2	0.52
C9,C21,C23	1800pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">C3216C0G2J182K115AA</a>	<a href="#">Digi-Key</a>	<a href="#">445-14632-1-ND</a>	0.41	3	1.23
C22	3300pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">C3216C0G2E332J085AA</a>	<a href="#">Mouser</a>	810-C3216C0G2E332J	0.28	1	0.28
C24,C26,C33	150pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">CC1206JKNPOZBN151</a>	<a href="#">Mouser</a>	603-CC126JKNPOZBN151	0.29	3	0.87
C25,C39	330pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">C3216C0G2J331J060AA</a>	<a href="#">Mouser</a>	810-C3216C0G2J331J	0.25	2	0.50
C32,C38,C40	270pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">CL31C271J1HNNNE</a>	<a href="#">Digi-Key</a>	<a href="#">1276-3244-1-ND</a>	0.32	3	0.96
C34,C44	180pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">CL31C181JHFNNNE</a>	<a href="#">Digi-Key</a>	<a href="#">1276-3223-1-ND</a>	0.28	2	0.56
C35	100pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">C3216C0G2J101J060AA</a>	<a href="#">Mouser</a>	810-C3216C0G2J101J	0.23	1	0.23
C36	39pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">GRM31A5C2J390JW01D</a>	<a href="#">Digi-Key</a>	<a href="#">490-11624-1-ND</a>	0.47	1	0.47
C37	560pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">CC1206JRNPOBBN561</a>	<a href="#">Digi-Key</a>	<a href="#">311-4436-1-ND</a>	0.24	1	0.24
C41,C42	220pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">C3216C0G2J221J060AA</a>	<a href="#">Digi-Key</a>	<a href="#">445-2338-1-ND</a>	0.28	2	0.56
C43	68pF 1206NP0 $\geq$ 200V $\leq$ 5%	<a href="#">CL31C680JHFNNNE</a>	<a href="#">Digi-Key</a>	<a href="#">1276-3284-1-ND</a>	0.36	1	0.36
C47,C49	1500pF 0805NP0 $\geq$ 50V $\leq$ 5%	<a href="#">885012007064</a>	<a href="#">Mouser</a>	710-885012007064	0.12	2	0.24
C48	680pF 0805NP0 $\geq$ 50V $\leq$ 5%	<a href="#">885012007062</a>	<a href="#">Mouser</a>	710-885012007062	0.10	1	0.10
CN1	External PA Jack	<a href="#">RCJ-041</a>	<a href="#">Mouser</a>	490-RCJ-041	1.36	1	1.36
CN2	20 Pin Single Row 0.1in	<a href="#">PRPC020SAAN-RC</a>	<a href="#">Digi-Key</a>	<a href="#">S1011EC-20-ND</a>	0.50	1	0.50
CN3,CN4	SMA Straight	<a href="#">5-1814832-1</a>	<a href="#">Digi-Key</a>	<a href="#">A97594-ND</a>	1.99	2	3.98
D1,D2	Schottky Diode	<a href="#">BAS40-07,215</a>	<a href="#">Mouser</a>	771-BAS40-07215	0.34	2	0.68
D3	SS Diode	<a href="#">1N4148W-7-F</a>	<a href="#">Mouser</a>	621-1N4148W-F	0.16	1	0.16
FB1	FB 0805 $\geq$ 600R@100MHz $\leq$ 200mOhm@DC $\geq$ 1.5A	<a href="#">ILHB0805ER601V</a>	<a href="#">Mouser</a>	70-ILHB0805ER601V	0.10	1	0.10
JP1	21cm PFTE silver plated 24to30AWG wire	<a href="#">400R0111-24-9</a>	<a href="#">Mouser</a>	650-400R0111-24-9	0.16	1	0.16
K1,K2,K3,K4,K5,K6, K7	Relay	<a href="#">EC2-3NU</a>	<a href="#">Digi-Key</a>	<a href="#">399-11042-5-ND</a>	1.73	7	12.11
L1,L2	1.8uH	<a href="#">CC453232-1R8KL</a>	<a href="#">Mouser</a>	652-CC453232-1R8KL	0.28	2	0.56
L3	T37 Toroid	<a href="#">5977000211</a>	<a href="#">Mouser</a>	623-5977000211	0.71	1	0.71
L4,L15	1.8uH	<a href="#">LBM2016T1R8J</a>	<a href="#">Digi-Key</a>	<a href="#">587-3092-1-ND</a>	0.21	2	0.42
L5,L6	3.9uH	<a href="#">7447669039</a>	<a href="#">Mouser</a>	710-7447669039	0.39	2	0.78
L7,L8	220nH	<a href="#">AISC-1210-R22J-T</a>	<a href="#">Mouser</a>	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
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	311-2.20KCRCT-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	Mouser	579-MCP23008T-E/SS	1.13	1	1.13
U2	Relay Driver	ULN2003LVPWR	Mouser	595-ULN2003LVPWR	0.64	1	0.64
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:** \$37.90

**Line Items:** SMT:38 TH:6 Total:44

**Parts:** SMT:81 TH:13 Total:94

**Pins:** SMT:207 TH:107 Total:314

**Do Not Include:** C12 C15 CN5 R16 RV1