

## N2ADR Filter Board E5 BOM

Assembly Build - July 5, 2018

Line	Description	Part Number	Sub OK	Designators	Footprint	Pins	Quantity
1	0.1uF 0805 $\geq$ X5R $\geq$ 25V $\leq$ 20%	08055C104JAT2A C0805C104M3RACTU	Y	C1,C2,C3,C4,C5,C6, C7,C11,C13,C14,C20, C27,C28,C29,C30,C31, C45,C46,C50	0805	2	19
2	1000pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31B5C2J102JW01L 885342008003 C1206C102K2GACTU	N	C8,C10	1206	2	2
3	1800pF 1206NP0 $\geq$ 200V $\leq$ 5%	C3216C0G2J182J115AA C3216C0G2J182K115AA C1206C182JBGAC7800	N	C9,C21,C23	1206	2	3
4	3300pF 1206NP0 $\geq$ 200V $\leq$ 5%	C1206C332JBGACTU C3216C0G2E332J085AA CL31C332JHHNFNE	N	C22	1206	2	1
5	150pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J151JW01D 12067A151JAT2A CC1206JKNPOZBN151 C3216C0G2J151K060AA	N	C24,C26,C33	1206	2	3
6	330pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J331JW01D C3216C0G2J331J060AA CL31C331JHFNNNE	N	C25,C39	1206	2	2
7	270pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J271JW01D C3216C0G2J271J060AA CL31C271JIHNNNE	N	C32,C38,C40	1206	2	3
8	180pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J181JW01D C3216C0G2J181K060AA CL31C181JHFNNNE C1206C181JGGAC7800	N	C34,C44	1206	2	2
9	100pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J101JW01D CC1206JKNPOZBN101 C3216C0G2J101J060AA	N	C35	1206	2	1
10	39pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J390JW01D GRM31A5C3A390JW01D	N	C36	1206	2	1
11	560pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J561JW01D CC1206JRNPOBBN561 C3216C0G2J561J085AA	N	C37	1206	2	1

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12	220pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J221JW01D C3216C0G2J221J060AA CL31C221JGFNNNE	N	C41,C42	1206	2	2
13	68pF 1206NP0 $\geq$ 200V $\leq$ 5%	GRM31A5C2J680JW01D CL31C680JHFNNNE C1206C680J2GAC7800	N	C43	1206	2	1
14	1500pF 0805NP0 $\geq$ 50V $\leq$ 5%	08055A152JAT2A 885012007064 CL21C152JBFNNNE	N	C47,C49	0805	2	2
15	680pF 0805NP0 $\geq$ 50V $\leq$ 5%	08055A681JAT2A 885012007062 CC0805JRNPO0BN681	N	C48	0805	2	1
16	Schottky Diode	BAS40-07,215 BAS4007E6327HTSA1	N	D1,D2	SOT-143	4	2
17	SS Diode	1N4148W-7-F	Y	D3	SOD-123	2	1
18	FB 0805 $\geq$ 600R@100MHz $\leq$ 200mOhm@DC $\geq$ 1.5A	MPZ2012S102AT000 ILHB0805ER601V	Y	FB1	0805	2	1
19	1.8uH	CC453232-1R8KL	N	L1,L2	1812	2	2
20	1.8uH	LBM2016T1R8J	N	L4,L15	0805	2	2
21	3.9uH	7447669039	N	L5,L6	1812	2	2
22	220nH	AISC-1210-R22J-T	N	L7,L8	1210	2	2
23	1000nH	CC453232-1R0KL	N	L9	1812	2	1
24	560nH	AISC-1210-R56J-T	N	L10	1210	2	1
25	390nH	AISC-1210-R39J-T	N	L11,L14	1210	2	2
26	680nH	AISC-1210-R68J-T	N	L12	1210	2	1
27	270nH	AISC-1210-R27J-T	N	L13	1210	2	1
28	22 0805 $\leq$ 1% $\geq$ 1/10W	RC0805FR-0722RL ERJ-6ENF22R0V	Y	R1	0805	2	1
29	2.2K 0805 $\leq$ 1% $\geq$ 1/10W	RC0805FR-072K2L CRG0805F2K2	Y	R2,R10,R13	0805	2	3
30	56 0805 $\leq$ 1% $\geq$ 1/10W	RC0805FR-0756RL ERJ-6ENF56R0V CRGCQ0805F56R	Y	R3	0805	2	1
31	4.7K 0805 $\leq$ 1% $\geq$ 1/10W	RC0805JR-074K7L CRG0805F4K7 RC2012F472CS	Y	R4,R5,R8,R9	0805	2	4
32	18 0805 $\leq$ 1% $\geq$ 1/10W	RC0805FR-0718RL CRG0805F18R	Y	R6,R7	0805	2	2

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33	6.2K 0805 $\leq 1\% \geq 1/10W$	<a href="#">RC0805FR-076K2L</a> <a href="#">ERJ-6ENF6201V</a>	Y	R11,R14	0805	2	2
34	330 0805 $\leq 1\% \geq 1/10W$	<a href="#">RC0805JR-07330RL</a> <a href="#">RC2012F331CS</a> <a href="#">CRG0805F330R</a>	Y	R12,R15	0805	2	2
35	I2C Bus Expander	<a href="#">MCP23008T-E/SS</a>	N	U1	SSOP-20	20	1
36	Relay Driver	<a href="#">ULN2003LVPWR</a>	N	U2	TSSOP-16	16	1
37	AD8692 Op Amp	<a href="#">AD8692ARMZ</a>	N	U3	MSOP-8	8	1
38	NAND Gate	<a href="#">SN74LVC1G00DBVR</a>	N	U5	SOT-23-5	5	1

**Line Items:** SMT:38 Assembled TH:0

**Parts:** SMT:81 Assembled TH:0

**Pins:** SMT:207 Assembled TH:0

**Do Not Assemble:** C12 C15 CN1 CN2 CN3 CN4 CN5 JP1 K1 K2 K3 K4 K5 K6 K7 L3 R16 RV1