

**BoM: Premium ACA Build**

PCB #	Number	Part	Manufacturer	Mouser	Cost Each	Total
C1	2	4700uf, 35v Capacitor	Nichicon KG "Gold Tune"	647-LKG1V472MESBBK	\$4.37	\$8.74
C2	2	1000uf, 16v Capacitor	Nichicon RNL AOP	647-RNL1C102MDS1	\$2.12	\$4.24
C3	2	10uf, 25v Capacitor	Elna Silmic II	555-RFS25V100MF3#5	\$0.45	\$0.90
C4	2	100uf, 35v Capacitor	Nichicon RL8 AOP	647-RL81V101MDN1	\$2.01	\$4.02
C101 in parallel with R12	2	10pf, 500v Capacitor	5% Silver Mica	5982-15-500V10J	\$2.58	\$5.16
R1, R2	4	0.47ohm, 3 watt Resistor	Vishay	71-RS2B-0.47	\$2.96	\$11.84
R3, R4	4	0.68ohm, 3 watt Resistor	Vishay	71-CW2B-0.68	\$1.49	\$5.96
R4b, in Parallel to R4	2	2.0ohm, 3 watt Resistor	Vishay/Dale	71-CPF3-F-2	\$1.24	\$2.48
R5, R6	4	100ohm, ¼ watt Resistor	Vishay/Dale	71-RN65C1000B	\$1.00	\$4.00
R7	2	10.0Kohm, ¼ watt Resistor	Vishay/Dale	71-CMF5010K000FKEB	\$0.73	\$1.46
R8, R9, R14	6	1.00Kohm ¼ watt Resistor	Vishay/Dale	71-RN60C-F-1K/R	\$0.66	\$3.96
R10	2	332K0hm, ¼ watt Resistor	Vishay/Dale	71-RN60D3323F/R	\$0.50	\$1.00
R11	2	20Kohm, ¼ watt Resistor	Vishay/Dale	71-CMF5020K000FHEK	\$0.86	\$1.72
R12	3	90.9Kohm, ¼ watt Resistor	Vishay/Dale	71-CMF5090K900FHEB	\$0.67	\$2.01
R13	2	33.2Kohm, ¼ watt Resistor	Vishay/Dale	71-RN65C-F-33.2K	\$1.04	\$2.08
R15	2	2.21Kohm, ¼ watt Resistor	Vishay/Dale	71-CMF502K2100FHEB	\$0.86	\$1.72
P1	2	5Kohm, 0.5 watt Trimpot	Bourns	652-3386C-1-502LF	\$2.01	\$4.02
Q1, Q2	4	FQH44N10-f133 Mosfet	onsemi/Fairchild	512-FQH44N10-F133	\$3.02	\$12.08
Q3	2	ZTX450 Transistor	Diodes Incorporated	522-ZTX450STZ	\$0.65	\$1.30
Q4	2	2SK170 JFET				0
Red LED	2	Standard Red LED	Vishay	78-TLHR6400	\$0.46	\$0.92
Green LED	2	Standard Green LED	Vishay	78-TLHG6400	\$0.46	\$0.92
Keratherm Insulation	1	10 Pack	Keratherm/DIY Audio	DIY Audio/ Consumables	\$19.00	\$19.00
PCBs	1	PCBs with Gold Traces	Pass/ACA Amp	DIY Audio/ACA Amp Kit	\$20.00	\$20.00
					<b>Total Cost</b>	<b>\$119.53</b>