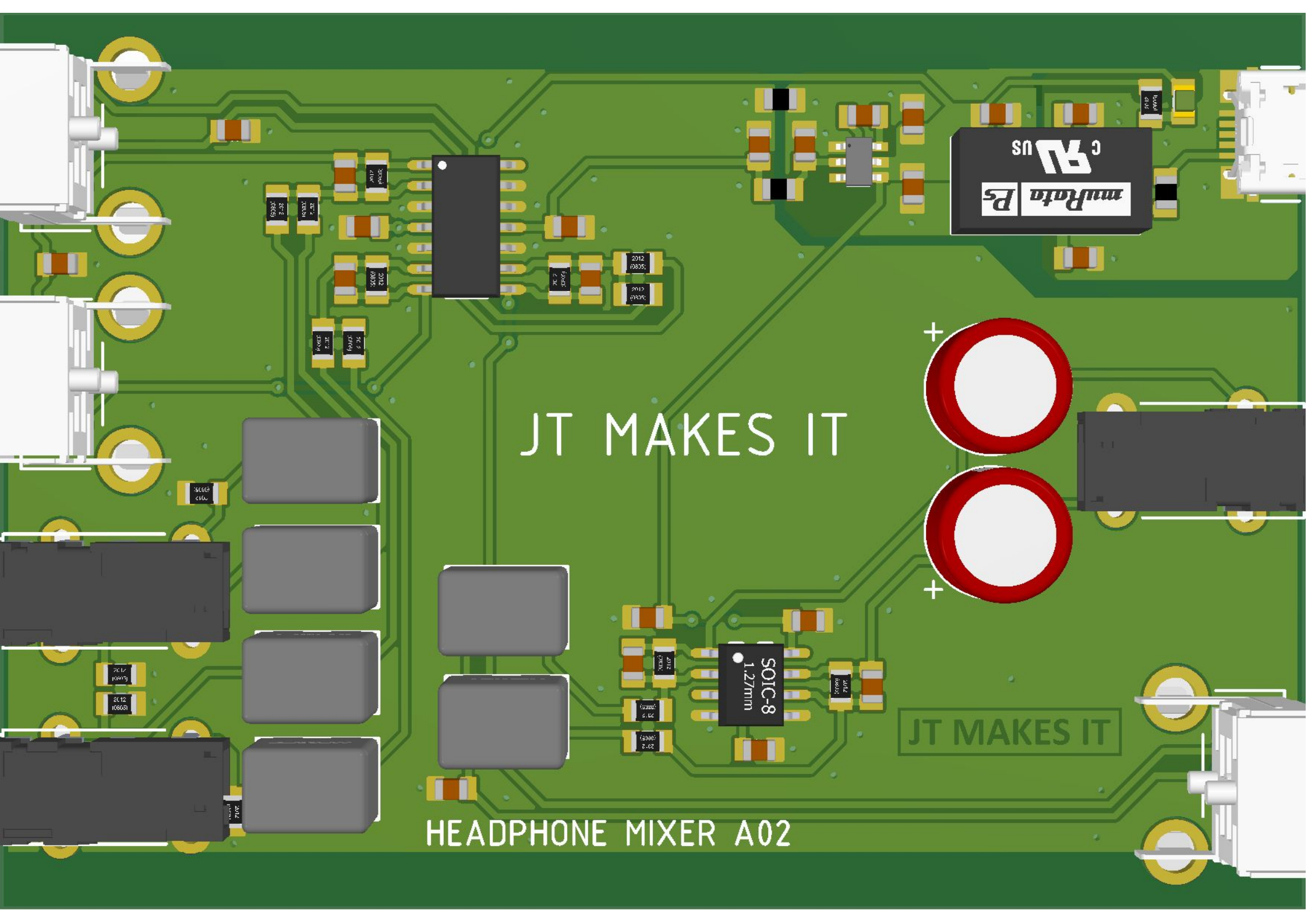


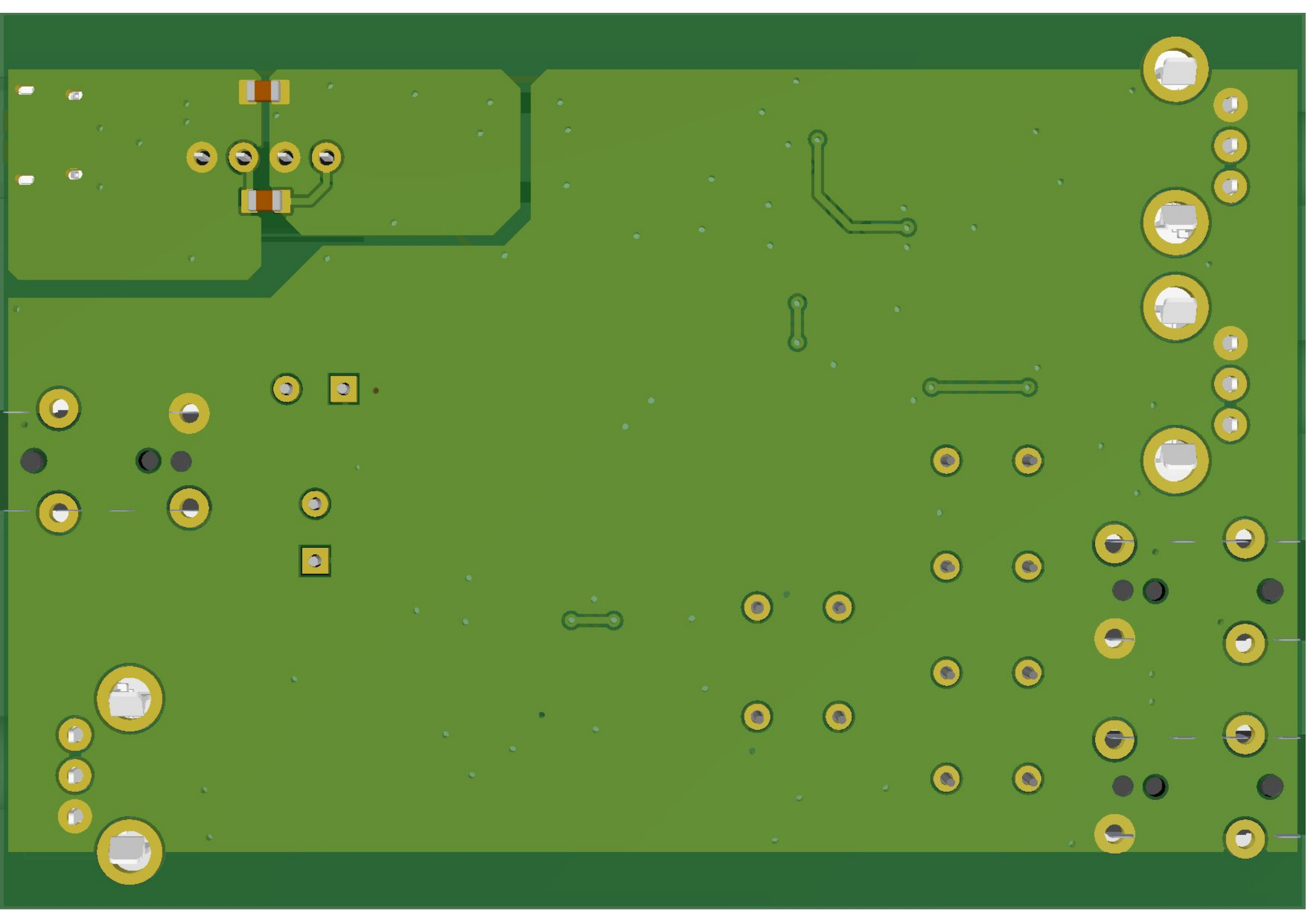
Ohisje farnell MC002216 or MCREAS80

JT MAKES IT

JT MAKES IT

HEADPHONE MIXER A02





C38

C28

R9

R5

R13

R22

R8

R6

R21

R4

C44

R17

R7

R16

R20



C36

C43

R19

C29

R14

R18

C27

R12

C25

R19

R23



C37

L3

C2

C5

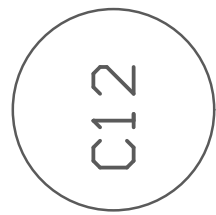
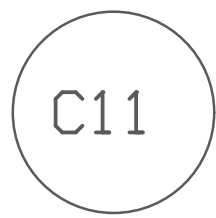
L2

C3



C15

C1



C2

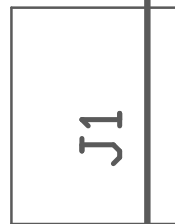
C10

C40

R1

L1

D1



CR

C+

Designator	Quantity	Comment	Description	Footprint	Manufacturer	Manufacturer Part Number	Supplier 1	Supplier Part Number 1	Tolerance	Voltage	Dielectric
C1, C4, C6, C8, C40, C43, C44	7	100nF	MLCC 0805 X7R 1uF 50V	CAPC2012X125N					10%	50V	X7R
C2, C5, C7, C10, C15, C27	6	10uF	Capacitor	CAPC2012X125N					20%	10V	X5R
C3	1	4.7uF	Capacitor	CAPC2012X125N					10%	25V	X5R
C11, C12	2	470uF	Cap EI 470uF 16V	CAPPR350-800X1150 - WE	WURTH ELEKTRONIK	870025374007	Farnell	2466528	10%	16V	Alu Polymer
C17, C19, C20, C22, C31, C33	6	2u2		CAP POLY TH 500x720x500x1000	KEMET	R82CC4220DQ70K	Farnell	2763207			
C21, C25, C28, C34, C36, C38, C39	7	100pF	Capacitor	CAPC2012X125N					5%	50V	NPO
C29	1	470pF	Capacitor	CAPC2012X125N					5%	50V	NPO
C37	1	1uF	MLCC 0805 X7R 1uF 50V	CAPC2012X125N					10%	50V	X7R
D1	1	LED 0805		LEDC2012X110N-GREEN							
J1	1	10103594-0001LF		Usb B MICRO SMD RA FCI 10103594-0001LF	FCI	10103594-0001LF	Farnell	2293752			
J2, J5, J6	3	MX-387GL	3.5mm stereo audio jack	MX-387GL 3.5mm jack	Pro Signal	MX-387GL	Farnell	1267376			
L1, L2, L3	3	MPZ2012S102AT	FB 0805 1 kOhm 1.5A	INDC2012X85N	TDK	MPZ2012S102AT	Farnell	2475049			
R1, R5, R9, R13, R22	5	1k	Resistor 0805 1%	RESC2012X60N					1%		
R6, R7, R8, R12, R14, R15, R16, R17, R18, R19, R20, R23, R25	13	10k	Resistor 0805 1%	RESC2012X60N					1%		
R10, R21, R24	3	PTV09A-2020F-A103	Horizontal Pot 10k, audio	POT Bourns PTV09A-2x20F							
U1	1	LM2664	Switched capacitor voltage inverter	SOT95P297X165-6N	Texas Instruments	LM2664M6X/NOPB	Mouser	926-LM2664M6X/NOPB			
U2	1	OPA4316	Quad Operational Amplifier	SOIC127P600X180-14N	Texas Instruments	OPA4316IDR	Mouser	595-OPA4316IDR			
U4	1	TPA6111A2	Stereo Headphone amplifier	SOIC127P600X150-8N	Texas Instruments	TPA6111A2DR	Mouser	595-TPA6111A2DR			
U5	1	NKE0505	DC-DC 1W isolated 3.3V-3.3V module (use NME series for low noise, or the cheapest B0505S-1W <1usd)	Murata NKE							