

BOM: MOOLY MOSFET AMP DESIGNED FOR MUSIC

Sr.	Part	Value	Description	Package/ pitch spacing	Description	Mfg. part no.	Mouser PN
1	+45V	-	Faston Connector	5.08 mm	Faston connector (male PCB tab + female cover)	3-520117-2 and 63849-1	571-35201172 and 571-638491
2	-45V	-	Faston Connector	5.08 mm	Faston connector (male PCB tab + female cover)	3-520117-2 and 63849-1	571-35201172 and 571-638491
3	GND	-	Faston Connector	F061.120	Faston connector (male PCB tab + female cover)	3-520117-2 and 63849-1	571-35201172 and 571-638491
4	OUT		PIN3F061.120	F061.120	Faston connector (male PCB tab + female cover)	3-520117-2 and 63849-1	571-35201172 and 571-638491
5	C0-1	1uF100V	C-EU050-075X075	C050-075X075	metallized polyester film capacitor with 7.5mm or 5mm pitch spacing.	MKS4-1/100/10P7	505-MKS4-1/100/10P7
6	C0-2	1uF100V	C-EU050-075X075	C050-075X075	metallized polyester film capacitor with 7.5mm or 5mm pitch spacing.	MKS4-1/100/10P7	505-MKS4-1/100/10P7
7	C1	10u25V	CPOL-EUE2.5-6	E2,5-6	Use high quality alu. Electrolytic cap as it is in signal path	UVZ1E100MDD1TD	647-UVZ1E100MDD1TD
8	C2	150p	C-EU050-024X044	C050-024X044	NP0/COG MLCC	C317C151K2G5TA	80-C317C151K2G
9	C3	470u25V	CPOL-EUE5-10.5	E5-10,5		UVR1E471MPD	647-UVR1E471MPD
10	C4	47u63V	CPOL-EUE3.5-8	E3,5-8		UVZ1J470MED	647-UVZ1J470MED
11	C5	10u25V	CPOL-EUE2.5-6	E2,5-6		UVZ1E100MDD1TD	647-UVZ1E100MDD1TD
12	C6	22u50V	CPOL-EUE2.5-7	E2,5-7		UVK1H220MDD	647-UVK1H220MDD
13	C7	22p	C-EU050-024X044	C050-024X044	NP0/COG MLCC	C317C220J2G5TA	80-C317C220J2G
14	C9	0.1u-250V	C-EU075-042X103	C075-042X103	metallized polyester film capacitor with 7.5mm or 5mm pitch spacing.	MKS4F031002C00KSSD	505-MKS4F031002CKSSD
15	C10-1	220u63V	CPOL-EUE7.5-18	E7,5-18		UVZ1J221MPD	647-UVZ1J221MPD
16	C10-2	220u63V	CPOL-EUE7.5-18	E7,5-18		UVZ1J221MPD	647-UVZ1J221MPD
17	C11-1	220u63V	CPOL-EUE7.5-18	E7,5-18		UVZ1J221MPD	647-UVZ1J221MPD
18	C11-2	220u63V	CPOL-EUE7.5-18	E7,5-18		UVZ1J221MPD	647-UVZ1J221MPD
19	C12	0.1u-250V	C-EU075-042X103	C075-042X103	metallized polyester film capacitor with 7.5mm or 5mm pitch spacing.	MKS4F031002C00KSSD	505-MKS4F031002CKSSD
20	C13	0.1u-250V	C-EU075-042X103	C075-042X103	metallized polyester film capacitor with 7.5mm or 5mm pitch spacing.	MKS4F031002C00KSSD	505-MKS4F031002CKSSD
21	C8	0.1u 50-63V	C-EU050-025X075	C050-025X075	general ceramic X7R /film cap with 5mm pitch used for decoupling	R82DC3100AA50J	80-R82DC3100AA50J
22	D1	BZX85-C12V0	ZENER-DIODED034-7	DO34Z7		BZX85C12	512-BZX85C12
23	IC1	TL071	TL071P	DIL08		TL071CP	595-TL071CP
24	SL1		M02	O2P	2.54 mm pitch PCB connector	640456-2	571-6404562
25	R8	500R	R-TRIMM3296W	RTRIM3296W	use good quality that specifies wiper current	3296W-1-501LF	652-3296W-1-501LF
26	R1	22k	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
27	R2	33k	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
28	R3	4k7	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
29	R4	22k	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
30	R5	100R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
31	R6	100k	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
32	R7	470R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
33	R10	6k8	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		

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34	R11	3k9	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
35	R12	33R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
36	R13	330R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
37	R14	22k	R-EU_0207/15	0207/15	1/4 W or 1/2 W metal film resistor with 1% tolerance		
38	R15	1M	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
39	R16	330R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
40	R17	1k5	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
41	R18	270R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
42	R19	220R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
43	R20	220R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
44	R21	270R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
45	R22	1k5	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
46	R27	10k	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
47	R28	680R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
48	R38	270R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
49	R41	270R	R-EU_0309/10	0309/10	1/4 W or 1/2 W metal film resistor with 1% tolerance		
50	R23	0.22-5W	RKWKP332	KWP332	Use low inductive type. The Vishay low inductive type given here have 23.5mm pitch and hence need inclined fitment on PCB that has 18.5mm pitch spacing. Ordinary ceramic type will work but design is for low-inductance type resistors.	LVR05R2200FE12	71-LVR-5-0.22
51	R24	0.22-5W	RKWKP332	KWP332		LVR05R2200FE12	71-LVR-5-0.22
52	R43	0.22-5W	RKWKP332	KWP332		LVR05R2200FE12	71-LVR-5-0.22
53	R44	0.22-5W	RKWKP332	KWP332		LVR05R2200FE12	71-LVR-5-0.22
54	R26	0.22-5W	RKH208-8R	KH208R-8		LVR05R2200FE12	71-LVR-5-0.22
55	R25	10R-3W	R-EU_0617/17	0617/17	use any 3W 10ohm that is available to you.	WHS3-10RJA1	756-WHS3-10RJA1
56	T1	2N5401	2N5401-PNP-TO92-EBC	TO92-EBC	use Fairchild/ On-semi EBC TO-92 PNP transistor	2N5401	610-2N5401
57	T2	2N5401	2N5401-PNP-TO92-EBC	TO92-EBC	use Fairchild/ On-semi EBC TO-92 PNP transistor	2N5401	610-2N5401
58	T3	2N5401	2N5401-PNP-TO92-EBC	TO92-EBC	use Fairchild/ On-semi EBC TO-92 PNP transistor	2N5401	610-2N5401
59	T4	2N5551	2N5551-NPN-TO92-EBC	TO92-EBC	use Fairchild /On-semi EBC TO-92 NPN transistor	2N5551TA	512-2N5551TA
60	T5	2N5551	2N5551-NPN-TO92-EBC	TO92-EBC	use Fairchild /On-semi EBC TO-92 NPN transistor	2N5551TA	512-2N5551TA
61	T6	2N5551	2N5551-NPN-TO92-EBC	TO92-EBC	use Fairchild /On-semi EBC TO-92 NPN transistor	2N5551TA	512-2N5551TA
62	T7	2N5401	2N5401-PNP-TO92-EBC	TO92-EBC	use Fairchild/ On-semi EBC TO-92 PNP transistor	2N5401	610-2N5401
63	T8	2SJ162	2SJ162(VER2)	TO-3P(VER2)	Renesas	http://www.taydaelectronics.com/2sj162-i162-mosfet-p-channel-160v-7a.html	
64	T9	2SK1058	2SK1058(VER2)P	TO-3P(VER2)	Renesas	http://www.taydaelectronics.com/2sk1058-n-channel-mosfet-160v-7a.html	
65	T10	2SJ162	2SJ162(VER2)	TO-3P(VER2)	Renesas	http://www.taydaelectronics.com/2sj162-i162-mosfet-p-channel-160v-7a.html	
66	T11	2SK1058	2SK1058(VER2)P	TO-3P(VER2)	Renesas	http://www.taydaelectronics.com/2sk1058-n-channel-mosfet-160v-7a.html	