

Very Simple Quasi-Complimentary MOSFET Amplifier

Design: RANCHU32 & AKSA rev-4.2 *

BOM

Sr.	Part	Value	Attributes	Description	Part Num
1	C1	1.5u63V		Film CAPACITOR	
2	C2	220p		NPO CERAMIC CAPACITOR	
3	C3	47u		POLARIZED CAPACITOR	
4	C4	2200u16V		POLARIZED CAPACITOR	
5	C5	33p S.Mica		Silver MICA/ NPO CAPACITOR	
6	C6	220-470u50V		POLARIZED CAPACITOR	
7	C7	47u		POLARIZED CAPACITOR	
8	C8	DNI		NPO CERAMIC CAPACITOR	
9	C9	22n		FILM CERAMIC CAPACITOR	
10	C10	220p		NPO CERAMIC CAPACITOR	
11	C11	100n		FILM CAPACITOR	
12	C12	100n		FILM CAPACITOR	
13	C13	100n		FILM CAPACITOR	
14	C14	220-470u50V		POLARIZED CAPACITOR	
15	C15	220-470u50V		POLARIZED CAPACITOR	
16	C16	TBD		NPO CERAMIC CAPACITOR (approx. 33-68p)	
17	D1	1N4004		DIODE	
18	D2	1N4004		DIODE	
19	D3	1N4004		DIODE	
20	D4	1N4002		DIODE	
21	D5	12V		Z-Diode	
22	D6	1N4148		DIODE	
23	D7	3.3V		Z-Diode	
24	GND	PIN3F061.120		Faston Connector	
25	IN	IN		AMP QUICK CONNECTOR 2.54MM PITCH	
26	KK1	D02P		HEATSINK U-SHAPE TO-220, TO-126 TYPE	
29	L1	1.5uH		INDUCTOR 1.2-1.5MM DIA COPPER WIRE, 10-15 TURNS 10-12MM ID	
30	LED1	Red		LED	
31	LED2	Red		LED	
32	Q1	KSA992		PNP Transistor	
33	Q2	KSC1845		NPN Transistor	
34	Q3	KSA1381		PNP Transistor	
35	Q4	BD139		NPN Transistor	
36	Q5	KSA1381		PNP Transistor	
37	Q6	IRFP240		HEXFET Power MosFet	
38	Q7	2SC5200		NPN POWER BJT	
39	R1	470k		1/4W MFR RESISTOR	
40	R2	1k		1/4W MFR RESISTOR	
41	R3	10R		1/4W MFR RESISTOR	
42	R4	47k		1/4W MFR RESISTOR	
43	R5	100k		1/4W MFR RESISTOR	
44	R6	10k-1W		MFR 1W RESISTOR	
45	R7	680R		1/4W MFR RESISTOR	
46	R8	47R		1/4W MFR RESISTOR	
47	R9	1k5-1W		MFR 1W RESISTOR (one can also use 5 of 300R 0.25W MFR in series and solder the ends of the string in respective pads)	IN VER4.2, IT IS ALSO POSSIBLE TO REPLACE R9 WITH 2NOS. OF 750R 1-W VERTICAL RESISTORS
48	R10	68k		1/4W MFR RESISTOR	
49	R11	470R		1/4W MFR RESISTOR	
50	R12	2k2-0.6W		MFR -0.6W RESISTOR	
51	R13	1k2		1/4W MFR RESISTOR	
52	R14	150R		1/4W MFR RESISTOR	
53	R15	1k2		1/4W MFR RESISTOR	
54	R16	150R		1/4W MFR RESISTOR	
55	R17	2R2		1/4W MFR RESISTOR	
56	R18	47R		1/4W MFR RESISTOR	
57	R19	120R		1/4W MFR RESISTOR	
58	R20	0R33-2W		MFR 2W RESISTOR	
59	R21	0R33-2W		MFR 2W RESISTOR	
60	R22	10R-1W		1W MFR/CFR 1W RESISTOR	
61	R23	10R-1W		1W MFR/CFR 1W RESISTOR	
62	R24	10R		1/4W MFR RESISTOR	
63	SPKR	PIN3F061.120		Faston Connector	
64	V+	PIN3F061.120		Faston Connector	

65	V-	PIN3F061.120		Faston Connector	
66	VR1	200R		Trimm resistor 3296 TYPE	
67	VR2	1k		Trimm resistor 3296 TYPE	