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Design: TETRODE AMPLIFIER DESIGN SUITE V G2 1000 V MAX POWER SUPPLY & TRIP
 Doc. no.: Amateur Radio
 Revision: 6b1
 Author: flfrv@sfr.fr
 Modified: 01/2022

QTY	PART-REFS	VALUE	UZ	PACKAGE
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Resistors				

1	R9	2.7k		0.25 W
3	R10,R17,R22	1M		0.25 W
1	R13	120k		0.25 W
1	R15	100k		0.25 W
1	R16	1k		1 W
1	R19	100		0.25 W
1	R21	82k		0.25 W
Capacitors				

5	C6,C7,C9,C10,C12	100nF 50 V		PITCH 2.54 OR 5.08
1	C8	1uF 150 V		PITCH 2.5
1	C11,C13	10nF 2 kV		PITCH 7.5
Integrated Circuits				

1	U1	4N35/36/37		DIL6 + SOCKET
1	U2	LM358N		DIL8 + SOCKET
Transistors				

1	Q2	BC556		TO92
2	Q3,Q4	BS170		TO92
Diodes				

9	D1-D9	1N4007		DO41
1	DZ1	1N5363B	30	DO41 5 W
2	DZ2,DZ3	BZX79C3V6	3V6	DO35 0.5 W
1	DZ4	BZX79C12	12	DO35 0.5 W
1	DZ5	BZX79C51	51	DO35 0.5 W
1	DZ6	BZX79C24	24	DO35 0.5 W
Miscellaneous				

2	FU1,FU2	0.2A FAST		FUSE 5X20
2	FOR FUx	PROTECTED FUSE HOLDER		5x20
1	Jx (FOR Q1)	TERMINAL BLOCK 3 POLES		PITCH 7.62
4	J1-J4	TERMINAL BLOCK 2 POLES		PITCH 7.62
4	J5-J8	TERMINAL BLOCK 2 POLES		PITCH 5.08
1	RL1	RELAY DIL16 DPDT		COIL 24V
2	RV1,RV3	50k		POT 1 TURN
1	RV2	10k		POT 1 TURN



Bill Of Materials

VALUES FOR V G2 350 V 100 mA

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Resistors				

1	R1	33k		10 W CHASSIS
2	R2,R11	1M 3.5kV		VR37 0.5 W
1	R3	56k		0.25 W
2	R4,R5	100k		2 W
2	R12	2.2k		50 W CHASSIS
1	R14	1k		50 W CHASSIS
1	R18	22		2 W
Capacitors				

2	C1-C2	470uF 400 or 450 V		DIA 30 PITCH 10 mm
Transistors				

1	Q1	STW11NK100Z OR FGH30S130P	TO247	
Miscellaneous				

1	FOR U1	HEATSINK ~ 1.5°C/W + INSULATION PARTS		

Bill Of Materials

VALUES FOR V G2 800 V 100 mA

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QTY	PART-REFS	VALUE	UZ	PACKAGE
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Resistors				

1	R1	68k		25 W CHASSIS
2	R2,R11	3.9M 3.5kV		VR37 0.5 W
1	R3	120k		0.25 W
4	R4-R7	100k		2 W
4	R12	1k		50 W CHASSIS
3	R14	470		25 W CHASSIS
1	R18	22		2 W
Capacitors				

4	C1-C5	470uF 400 or 450 V		DIA 30 PITCH 10 mm
Transistors				

1	Q1	FGH30S130P	TO247	
Miscellaneous				

1	FOR U1	AIR COOLED HEATSINK ~ 0.7°C/W + INSULATION PARTS		

Bill Of Materials

VALUES FOR V G2 1000 V 100 mA

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Resistors				

1	R1	100k		25 W CHASSIS
2	R2,R11	8.2M 3.5kV		VR37 0.5 W
1	R3	220k		0.25 W
5	R4-R8	100k		2 W
5	R12	1k		50 W CHASSIS
1	R14	1k		50 W CHASSIS
1	R18	22		2 W
Capacitors				

5	C1-C5	470uF 400 or 450 V		DIA 30 PITCH 10 mm
Transistors				

1	Q1	FGH30S130P OR FGH30S150P		TO247
Miscellaneous				

1	FOR U1	AIR COOLED HEATSINK ~ 0.5°C/W		+ INSULATION PARTS