

Bill Of Materials

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Design: PTT SEQUENCER WITH RELAYS 16 AMPS

Doc. no.: AMATEUR RADIO

Revision: 3 & 3a

Author: F1FRV@SFR.FR

Modified: 05/2023

QTY	PART-REFS	VALUE	PACKAGE
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Resistors			

11	R1-R4,R9-R14,R20	10k	0.25 W
4	R5-R8	100k	0.25 W
6	R15-R19,R21	1k	0.25 W
Capacitors			

1	C1	4.7uF	Pitch 2.54
8	C2-C9	100nF	Pitch 2.54
Integrated Circuits			

1	U1	LM224 OR LM324	DIL14
Transistors			

6	Q1-Q6	BS170	TO92
Diodes			

5	D1-D5	1N4007	DO41
1	DZ1	ZENER 12V 0.5 W	DO35
1	DZ2	ZENER 5.1V 0.5W	DO35
Miscellaneous			

8	J1-J3, J8-J12	Screwed Terminal	2 POLES PITCH 5.08
4	J4-J7	Screwed Terminal	3 POLES PITCH 5.08
In alternative to 8+4, you can use 16 screwed terminals 2 poles			
In alternative to 8+4, you can use 11 screwed terminals 3 poles			
1	FOR U1	DIL SOCKET 14 PINS	
4	RL1-RL4	RELAY 12 V 16 Amps	
1	RV1	100k LIN 1 TURN	PIHER-PT10LV or EQUIV.

