

Remote

Tuner Remote

101

Ref	Value
C1	0.1 uF 50 V ceramic disc capacitor
C2	0.1 uF 50 V ceramic disc capacitor
C3	0.1 uF 630 V ceramic disc capacitor
C4	1000 uF 10 V radial electrolytic capacitor
C5	0.1 uF 630 V ceramic disc capacitor
C6	470 uF radial electrolytic capacitor
C10	0.1 uF 50 V ceramic disc capacitor
C11	10 nF 50 V ceramic disc capacitor
C18	10 nF 50 V ceramic disc capacitor
C19	10 nF 50 V ceramic disc capacitor
C20	100 nF 50 V ceramic disc capacitor
C21	10 nF 50 V ceramic disc capacitor
D1	1N4001
D2	1N4001
D3	1N4001
D7	1N5711
D8	5 mm LED
D9	1N5711
D10	1N5819
D11	1N5819
D14	1N5819
J1	JST 2.54 mm male 5/6 pin socket
J2	JST 2.54 mm male 5/6 pin socket
J8	2.54 mm spacing 6 pin header
J10	2.54 mm spacing 5 pin header
J11	JST 2.54 mm male 5/6 pin socket
J12	JST 2.54 mm male 5/6 pin socket
J15	5.08 mm spacing 2 pin screw terminal block
J16	2.54 mm spacing 6 pin header
J17	5.08 mm spacing 2 pin screw terminal block
J24	5.08 mm spacing 2 pin screw terminal block
J26	5.08 mm spacing 2 pin screw terminal block
J27	5.08 mm spacing 2 pin screw terminal block
JP1	2.54 mm spacing 2 pin header
JP2	2.54 mm spacing 3 pin header
L1	100 uH RF choke 100 mA (probably can just use short)
L3	100 uH RF choke 3 A
L5	100 uH RF choke 3 A
Q1	2N7000
Q2	2N7000
Q3	2N7000
Q4	2N7000
R1	10k ¼ watt resistor
R2	10k ¼ watt resistor

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R3	1.5k ¼ watt resistor
R4	22R ¼ watt resistor
R5	470R ¼ watt resistor
R6	22R ¼ watt resistor
R7	10k ¼ watt resistor
R8	10k ¼ watt resistor
R9	1.5k ¼ watt resistor
R10	1k ¼ watt resistor
R12	1k ¼ watt resistor
R13	1k ¼ watt resistor
R14	1k ¼ watt resistor
R15	1k ¼ watt resistor
R16	10k ¼ watt resistor
R17	10k ¼ watt resistor
R18	10k ¼ watt resistor
R19	0R wire
R20	10k ¼ watt resistor
R21	0R wire
R22	50R 2 watt resistor
R23	50R 2 watt resistor
R26	1k ¼ watt resistor
R29	1k ¼ watt resistor
R31	1k ¼ watt resistor
U4	LM7805_ TO220 TO-220
UB1	2 X 20 pin 2.54 m spacing pin header sockets

Bluepill board (can buy these much more easily, but in case you need it)

C7	1 uF 25 V radial electrolytic capacitor
C8	0.1 uF 50 V ceramic disc capacitor
C9	0.1 uF 50 V ceramic disc capacitor
C10	0.1 uF 50 V ceramic disc capacitor
C11	10 nF 50 V ceramic disc capacitor
C12	20 pF 50 V ceramic disc capacitor
C13	1 uF 25 V radial electrolytic capacitor
C14	20 pF 50 V ceramic disc capacitor
C15	20 pF 50 V ceramic disc capacitor
C16	20 pF 50 V ceramic disc capacitor
C17	10 nF 50 V ceramic disc capacitor
D4	3 mm LED
D5	1N5819
D6	1N5819
J3	USB_B
J4	2.54 mm spacing 4 pin header
J5	2.54 mm spacing 20 pin header
J6	2.54 mm spacing 3 pin header X 2
J7	6 mm PCB pushbutton
J9	2.54 mm spacing 20 pin header

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R3	1.5k $\frac{1}{4}$ watt resistor
R4	22R $\frac{1}{4}$ watt resistor
R6	22R $\frac{1}{4}$ watt resistor
R9	1.5k $\frac{1}{4}$ watt resistor
R11	470R $\frac{1}{4}$ watt resistor
U1	LM1117-3.3 TO-220
U2	STM32F103C8T6 or STM32F103CBT6
Y1	8 MHz HC-49 crystal
Y2	32.768 kHz Crystal