

Sheet1

PART	DESCRIPTION	VALUE	QTY	MARKINGS	NOTES
R1	10 ohm Resistor	10Ω	1	BRN, BLK, BLK	
R2	1K Resistor	1KΩ	1	BRN, BLK, RED	
C1	100uf Electrolytic Capacitor	100uf	1	100uf 16v (or higher)	<b>“OBSERVE POLARITY!!”</b>
C2	100pf Disc Capacitor	100pf	1	101	
C3	.047uf Disc Capacitor	.047uf	1	473	
C4	10uf Electrolytic Capacitor	10uf	1	10uf 16v (or higher)	<b>“OBSERVE POLARITY!!”</b>
C5	.1uf Disc Capacitor	.1uf	1	104	
C6	4.7uf Electrolytic Capacitor	4.7uf	1	4.7uf 16v (or higher)	<b>“OBSERVE POLARITY!!”</b>
C7	47pf Ceramic Capacitor	47pf	1	47	
D1	3mm RED LED		1	RED	
D2	BAT43	BAT43	1	BAT43	<b>“OBSERVE BAND DIRECTION”</b>
VR1, VR2	10K POT	10K	2	103	
Q1	2N2222 Transistor		1	2N2222	
U1	LM386 OP AMP		1	LM386	
SOCKET	8 pin Socket		1		
DB9	DB9 Female Connector		1		
JACK	BARREL_JACK		1		
JP1	3 pin Header		1		
JP2	2 pin Header		1		
Jumper	Jumper		2		
Board	RI-1 Board		1		
USB Jack	USB-B Jack		1		

<b><u>DB9 Pin-out</u></b>	<b><u>Function</u></b>
<b>Pin 1</b>	<b>Spare hole in board</b>
<b>Pin 2</b>	<b>TX Audio (Audio to Radio)</b>
<b>Pin 3</b>	<b>COS</b>
<b>Pin 4</b>	<b>CTCSS Signal (If used)</b>
<b>Pin 5</b>	<b>PTT</b>
<b>Pin 6</b>	<b>RX Audio (Audio From Radio)</b>
<b>Pin 7</b>	<b>Spare hole in board</b>
<b>Pin 8</b>	<b>Ground</b>
<b>Pin 9</b>	<b>Spare hole in board. Preferably used for power delivery.</b>