

FreedomMic Active Parts List

#	TYPE	FUNCTION
Q1	NE94433	IF PREAMPLIFIER
Q2	BFR92A	RCVR MIXER
Q3	NE68139	RCVR PREAMPLIFIER
Q4	BFR92A	RCVR PREAMPLIFIER
Q5	MMBT4403	TRANSMITTER ENABLE SWITCH
Q6	BFR92A	RCVR LO BUFFER AMP
Q7	MMBT3904	POWER SUPPLY FILTER FOR VCO
Q8	NE68139	TRANSMITTER FINAL AMPLIFIER
Q9	BFR92A	VOLTAGE CONTROLLED OSCILLATOR
Q10	MUN5211	TRANSMIT AUDIO MUTE SWITCH
Q11	MRFIC0916	VCO BUFFER AMPLIFIER
Q12	MUN5211	VOX SWITCH
Q13	MMBT4403	BATTERY CHARGE ENABLE SWITCH
Q14	MMBT3904	BATTERY CHARGE PASS TRANSISTOR
Q15	MUN5211	POWER ON/OFF CONTROL SWITCH
Q16	MMBT4403	RECEIVER ENABLE SWITCH
Q17	MMBT4403	POWER OFF ENABLE SWITCH
Q18	BFR92A	TRANSMITTER BUFFER AMP
U1	LM4864	AUDIO POWER AMPLIFIER
U2A	MC4558	XMTR AUDIO MIXER AND DEVIATION LIMITER
U2B	MC4558	XMTR AUDIO Sallen-Key LOW PASS FILTER
U3	MC3371	IF MIXER/AMP AND FM DEMODULATOR
U4	TCXO	12.8 MHz TCXO 2.5ppm
U5	X9312	RCVR AUDIO LEVEL ADJUST AND MUTE
U6A	MC4558	MICROPHONE AUDIO PREAMPLIFIER
U6B	MC4558	XMTR AUDIO BUFFER AMP
U7	NE577	XMTR AUDIO COMPANDER/RCVR AUDIO EXPANDER
U8	MC145191	FREQUENCY SYNTHESIZER IC
U9	MC145443	AFSK MODEM IC
U10	LMV321	BATTERY CHARGE CONTROL
U11	LM385	PRECISION VOLTAGE REFERENCE
U12	LT1300	5 VOLT SWITCHING VOLTAGE REGULATOR
U13	MC68HC705C9	MICROCONTROLLER
U14A	MC4558	BATTERY LOW WARNING CIRCUIT
U14B	MC4558	1/2 VCC BIAS VOLTAGE BUFFER AMP
CR1	MMBV3401	PIN DIODE XMTR/RCVR SWITCH
CR2	MMBV105G	VARICAP DIODE FOR VCO FREQUENCY CONTROL
CR3	MBR0520	SCHOTTKY DIODE FOR SWITCHING REGULATOR
CR4	BICOLOR LED	USER INTERFACE SIGNALING
CR5	BICOLOR LED	USER INTERFACE SIGNALING