

I/O INTERFACE CIRCUIT BOARD:

PCC PN	DESIGNATOR	DESCRIPTION	FUNCTION
C00214	D7,D5,D6,D8	LED,T-1,HI-EFF,RED	Light emitting diode
C00362	U1	IC,TO-220,REG,ADJ,LM2940T-8.0	Linear voltage regulator, 8V
C00385	D3	DIODE,SOT-23,BAS16 (1N4148)	Signal diode
C00888	D4	DIODE,SOT-23,ZENER,12	Zener diode
C00981	D1	DIODE,MELF,RECT,1N5819M	Zener diode
C01107	D2	DIODE,SMBJ,TVS,26V	Zener diode
C01148	U2	IC,SMT,REG,MIC5200-5.0	Linear voltage regulator, 5V
C01197	U4,U3	IC,S0-14,SER SHIFT REG,HC164	Serial shift register
C01305	Q2	TRANS,SOT-23,2N7002	FET to buffer signal
C1306	DISP1	DISP,LDS-A5206RI	7 Segment digital LED display
C01307	U6	IC,SOL-24,ADM207EAR	RS-232 signal driver
C01308	U5	IC,SOL-24,ADM208EAR	RS-232 signal driver
C01309	Q1	TRANS,SO-8,PFET,Si4435D	FET as a power switch
C01321	Q3	TRANS,SO-8,PFET,Si4435DY	FET to buffer signal

RFMOD AND VCO CIRCUIT BOARD:

PCC PN	DESIGNATOR	DESCRIPTION	FUNCTION
C00513	D1, D2	DIODE,SOT-23,VARACT,MMBV	Varactor diode in the VCO
C00502	Q2,Q1,Q7,Q14,Q15	TRANS,SOT-23,RF,NPN,NE8563	Transistor buffer in the VCO and receive path
C00647	D3, D2	DIODE,SOD-323,VAR,SMV1236	Varactor diode in the VCO
C00193	Q1, Q5	TRANS,SOT-23,PNP,2N2907A	Transistor as simple switch
C00215	U5	IC,SMT,MEM,SRAM,100N,32KX8	Random Access Memory, 32k
C00262	U2	IC,S0-14,MC74HC00AD	Logic gate, NAND
C00289	U4	IC,SMT,REG,LP2951ACM	Linear voltage regulator, 5V
C00318	Q2-Q4,Q6,Q13	TRANS,SOT-23,NPN,2N2222A	Transistor as simple switch
C00491	U15	IC,SMT,FM IF,MC3371D	FM discriminator
C00503	Q8, Q9	TRANS,SOT-23,RF,NPN,MMBTH	Transistor in XTAL oscillator
C00640	U17	IC,SMT,SYNTH,LMX2315	Frequency synthesizer
C00646	U18	IC,SOT-363,AMP,INA-51063	MIMIC in receive path
C00653	Q10	TRANS,MRF581	RF pre-driver amplifier
C00658	U19	IC,TO-6,AMP,UPC2710T	MIMIC to amplify L.O.
C00679	U6	IC,SMT,LOGIC,74HC4052	QUAD MUX logic device
C00767	Q11	TRANS,SOT-23,PNP,ROHM,SST	Transistor in XTAL oscillator
C00814	U20	IC,SOT-23,TEMP SENSOR,LM50	Temperature sensor
C01053	U8, U7	IC,SMT,LINEAR, OP AMP,LMC65	QUAD Operational Amplifier
C01092	U13	IC,SMT,DAC,8 BIT,MAX549AEUA	8 bit Digital to Analog Conv.
C01148	U21, U22, U23	IC,SMT,REG,MIC5200-5.0BM	Linear voltage regulator, 5V
C01218	U24	IC,SO-8,AMP,UPC1678GV	RF pre-amplifier
C01240	U10	IC,PLCC-32,MEM,AM29F010	FLASH memory, 128kbyte
C01242	U14	IC,S0-8,OP AMP,LM7301	Op amp for amplifier control
C01243	U11	IC,UMAX,ISNS,MAX4172	Differential current sensor
C01245	U9	IC,PLCC-68,QUART,ST16C454	Quad UART for RS-232
C01246	U12	IC,SO-8,VGND,2.5V,TLE2425	Voltage reference, 2.5V
C01318	U3	IC,TSSOP-24,CMX589E2	Modem IC, GMSK
C01319	U1	IC,UP,MC68HC11F1CPU3	Microcontroller, 8 bit
C01320	U27	IC,SSOP-24,MX919BDS	Modem IC, 4-Level FSK

AMPLIFIER CIRCUIT BOARD:

PCC PN	DESIGNATOR	DESCRIPTION	FUNCTION
C00318	Q3	TRANS,SOT-23,NPN,2N2222A	Transistor switches relay
C00320	D1, D2	DIODE,SMT,RECT,SM4001	Diode suppresses relay emf
C00338	D3,D4,D6,D8	DIODE,SMT,PIN,MA4P1250	PIN diodes for 2/35W control
C00398	Q2	TRANS,RF PWR,MRF650	Final stage driver transistor
C00400	Q1	TRANS,RF PWR,MRF641	Second stage driver transistor
C00490	D5, D7	DIODE,SOT-23,PIN,MMBV3401L	PIN diode as RF switch
C00814	U1	IC,SOT-23,TEMP SENSOR,LM50	Temperature sensor
C01282	Q5	TRANS,TO-220,NPN,DAR,MJF12	Power level control transistor
C01297	Q4	TRANS,RF PWR,MRF652S	First stage driver transistor