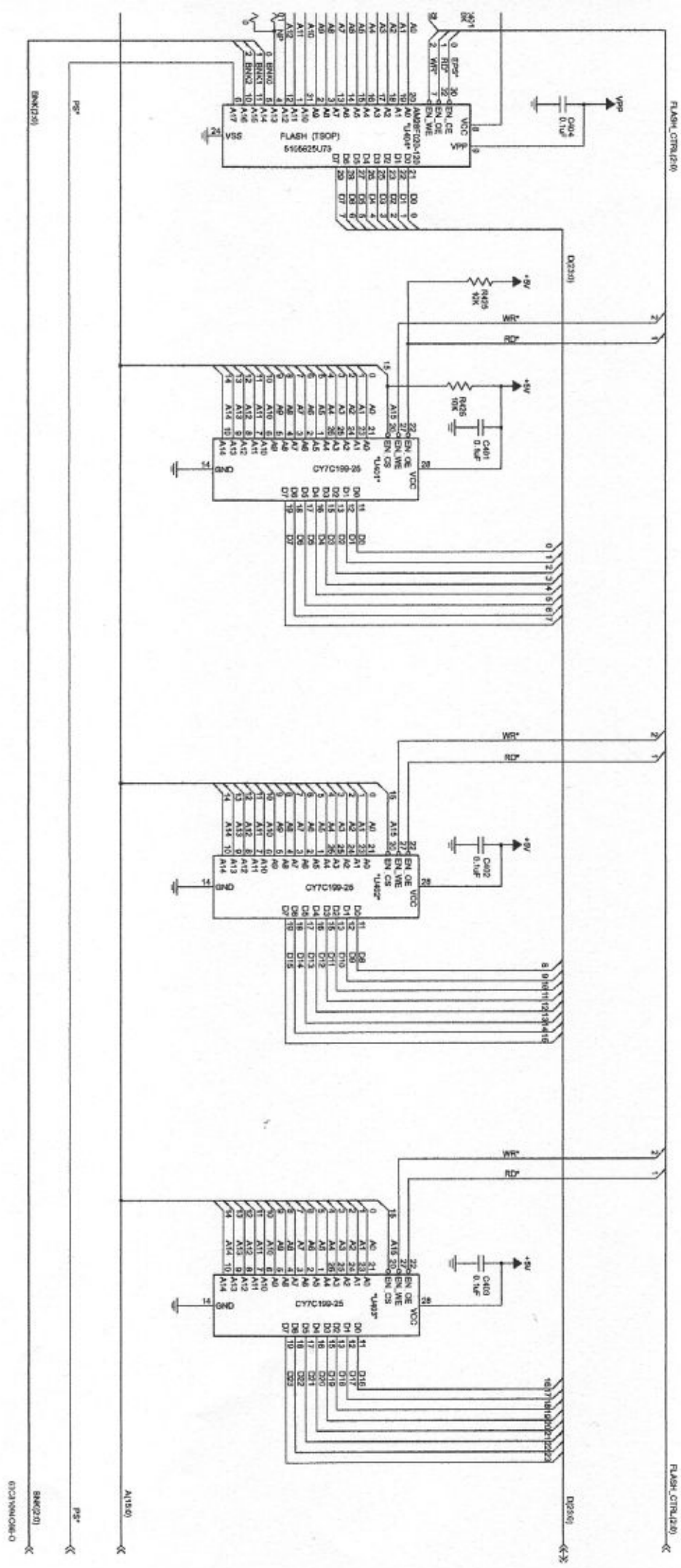
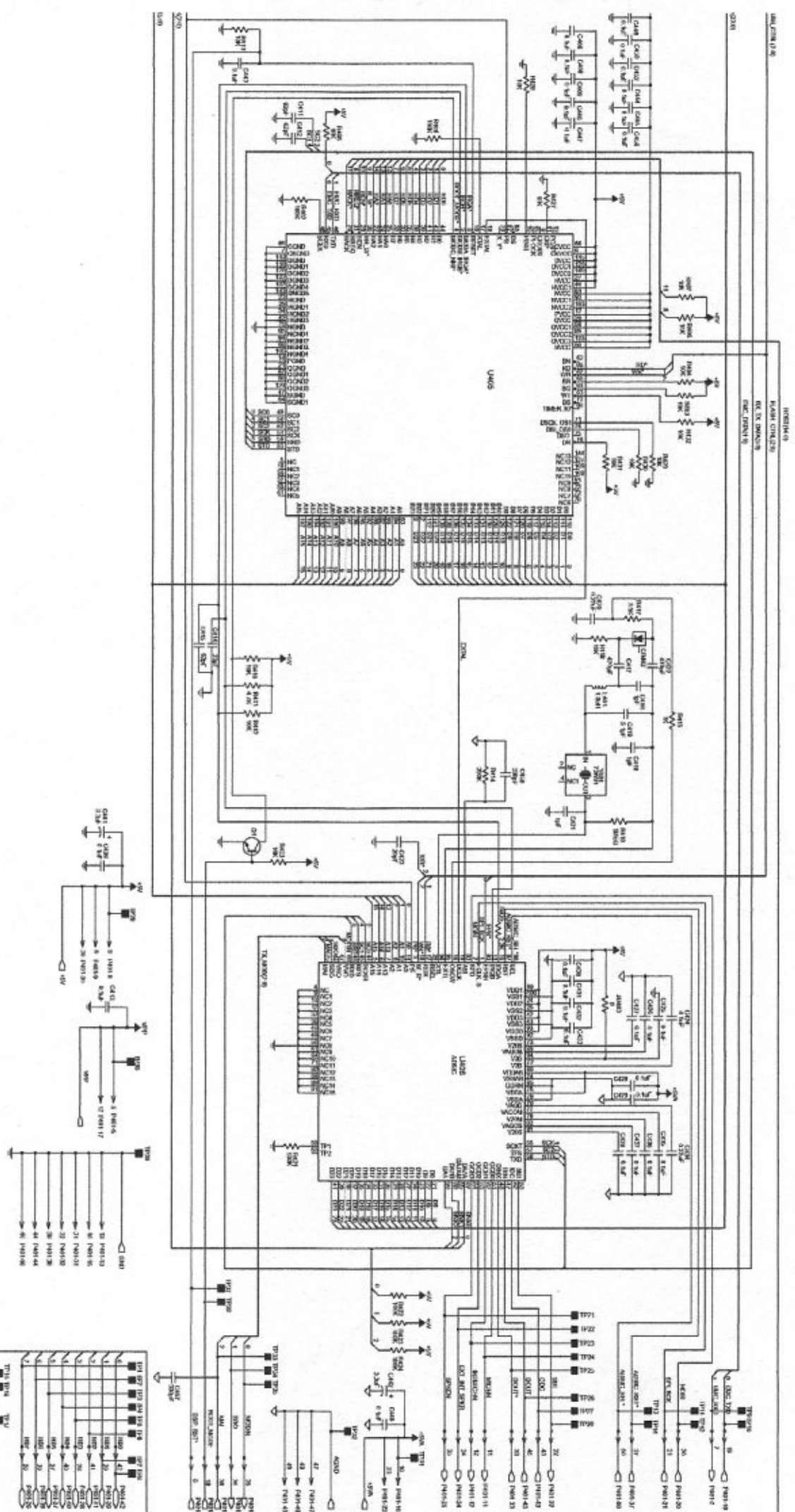
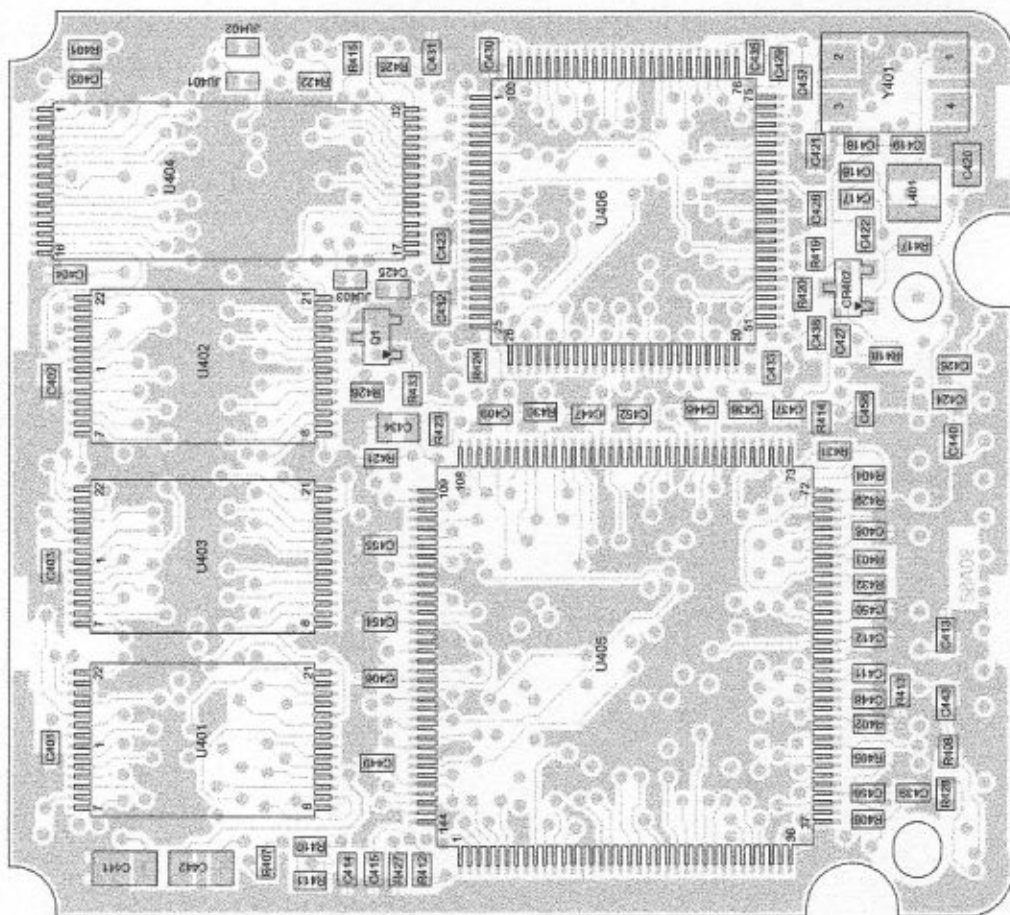




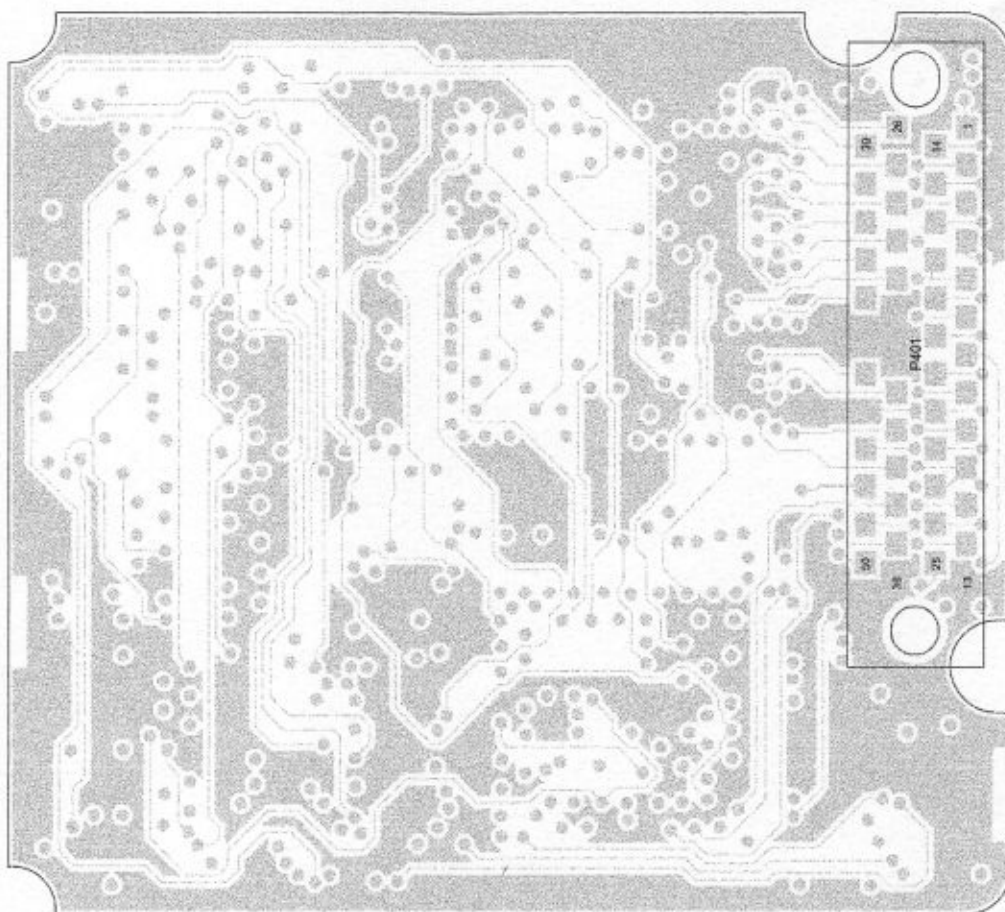


VIEWED FROM SIDE 1



MAEPF-27136-O

VIEWED FROM SIDE 2



MAEPF-27136-O

NTN8250F Vocoder Board Component Location Detail

NTN8250F Vocoder Board Electrical Parts List

ITEM	MOTOROLA PART NUMBER	DESCRIPTION
C401 thru C406	211332K15	CAPACITOR, Fixed: pF ±5%; 50V Unless otherwise stated
C405	211332K15	0.1 uF ±80V-20% 16V
C408, C409	211332K15	0.1 uF ±80V-20% 16V
C411, C412	211332K15	0.1 uF ±80V-20% 16V
C413	211332K15	Not Placed
C414	211332K15	0.1 uF ±80V-20% 16V
C415	211332K15	33
C416	211332K15	52
C417	211332K15	1 pF 50V ±0.1 pF 50V
C418	211332K15	1 pF 50V ±0.1 pF 50V
C419	211332K15	5.1 pF 50V ±0.25 pF 50V
C420	211332K15	0.22 uF 10%
C421	211332K15	1 pF 50V ±0.1 pF 50V
C422	211332K15	470
C423	211332K15	20
C424 thru C433	211332K15	0.1 uF ±80V-20% 16V
C434	211332K15	0.22 uF 10%
C435 thru C440	211332K15	CAP CER, 100 uF ±80V-20% 16V
C441, C447	211332K15	3.3 uF
C443	211332K15	0.1 uF ±80V-20% 16V
C446 thru C450	211332K15	0.1 uF ±80V-20% 16V
C452	211332K15	0.1 uF ±80V-20% 16V
C454 thru C456	211332K15	0.1 uF ±80V-20% 16V
C457, C458	211332K15	330
CR402	4013825A06	DIODE: See Note 1.
U401	4013825A06	PIN DIODE, 35V
U402, U403	0662057A97	AMPLIFIER
L401	2462387E71	Not Placed
P401	2462387E71	COIL, RF: 1800 nH
Q1	4005128M12	PLUG: Not Placed
R401	0662057A73	TRANSISTOR: See Note 1.
R402	0662057A97	NPN
R403 thru R407	0662057A73	RESISTOR, Fixed: Ω ±5%; 1/8W Unless otherwise stated
R408	0662057A97	10k
R410	0662057A73	100k
R411	0662057A65	10k
R412, R413	0662057A73	4.7k
R414	0662057B12	10k
R415	0662057A49	390k
R417	0662057A63	1k
R418	0662057A73	3.9k
R419	0662057B22	10k
R420	0662057A57	1 M
R421 thru R424	0662057A97	2.2k
R425 thru R433	0662057A73	10k
U401 thru U403	5185963A18	INTEGRATED CIRCUIT MODULE: See Note 1.
U404	5185130C54	32k x 8 DSP-SRAM
U405	51054457N96	256k x 8 FLASH ROM
U406	5185963A10	DSP (Digital Signal Processor)
		ADSC (ABACUS/DSP Support IC)
Y401	4805573W01	CRYSTAL: See Note 2. 33 MHz

- Notes:
- For optimum performance, order replacement diodes, transistors, and circuit modules by Motorola part number only.
 - When ordering crystals, specify carrier frequency, crystal type, crystal load, and package. Motorola part number.
 - Part value notations:
p=10⁻¹²
n=10⁻⁹
μ=10⁻⁶
m=10⁻³
k=10³
M=10⁶
 - ITEM refers to the component reference designator. SIDE refers to the location of the component on the board; S1=Side 1, S2=Side 2.
 - THE NTN8250F Vocoder kit is an 8-layer printed circuit board.

