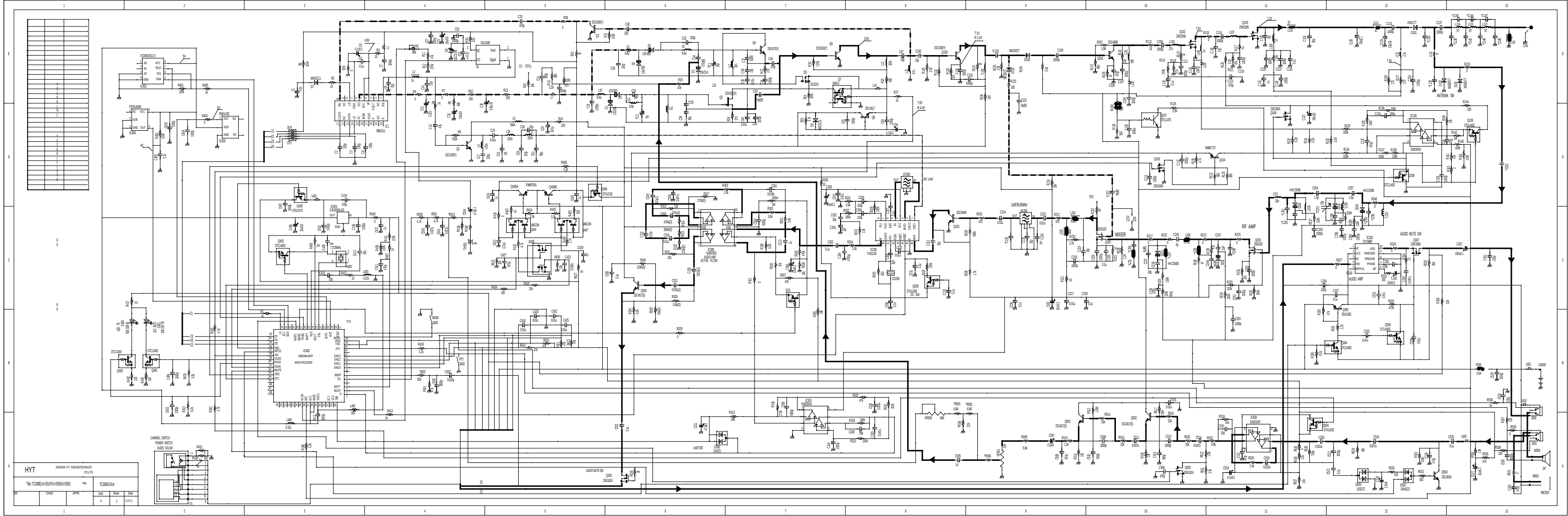
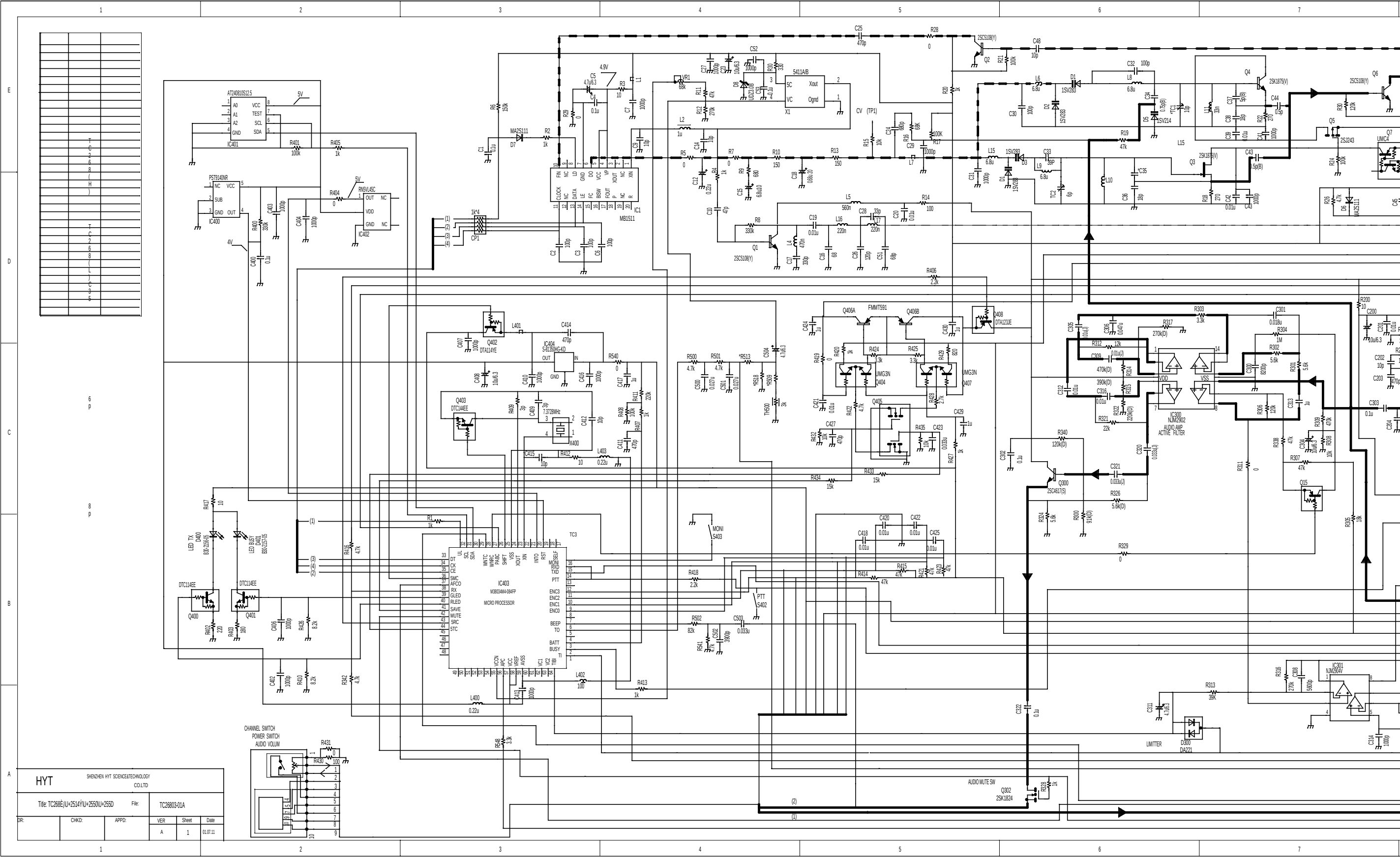


RPV 516A Schematic Complete



RPV 516A Schematic Left Section



This is a detailed electronic circuit diagram for a portable radio receiver. The circuit is organized into several functional blocks:

- RF AMP (Radio Frequency Amplifier):** Located in the upper right, it uses a 2SK1824 transistor (Q103) to amplify the received radio signal.
- MIXER:** Utilizes a 2SC4649 transistor (Q201) to mix the RF signal with a local oscillator signal.
- Local Oscillator (LO):** Consists of a variable capacitor (CF200) and a 150F38.85MHz crystal (X200) to provide a stable frequency for mixing.
- Audio Amplifier:** Employs a 2SC4617 transistor (Q502) to drive the speaker (W500).
- Audio Mute SW:** A switch (Q307) controlled by the audio amplifier to mute the speaker during reception.
- Antenna SW:** A switch (Q108) to select between the antenna and a speaker (W501) for external audio output.
- Power Supply:** A 7.5V battery (V500) provides power to the circuit, with various resistors and capacitors for regulation and decoupling.

The diagram includes numerous component labels, such as resistors (R1 through R500), capacitors (C1 through C500), and integrated circuits (IC100, IC302, IC500). It also shows the connections for the antenna, speaker, and various control elements like the volume knob (POT10K) and the antenna switch.