

OPERATION DESCRIPTION UF-16A

DC-DC Converter

Using DC-DC converter, supply 3.9 voltage to all circuit.

AUDIO

1. Audio from the microphone is coupled through I.C. BA4510 (1/2) applied to the audio amplifier stage.
2. I.C. TK10691M (TK10690) is pre-emphasis & compressor circuit.
3. I.C. BA4510 (1/2) is a buffer.
4. Output from pin1 of IC (BA4510) is applied to VCO stage.

TONE OSC

Crystal (32.768KHz) is an oscillator and it oscillates 32.768KHz for tone key.

VCO

The resonator and the transistor (2SC3356) is a resonant circuit. I.C. (15E03SL) is a PLL circuit and it controls frequency of VCO.

MICROCONTROLLER

I.C. 78P156 is a microcontroller and it shifts DATA to I.C. (15E03SL).

BUFFER

Transistor 2SC3356 is a buffer.

PRE AMP & FINAL AMP

The stage (transistor BF520 x 2) consists preamp. & final AMP. Then the RF signal is emitted by antenna.