

Model: 92021  
Technical Description  
FCC ID: 2AAVF-92021

The Equipment Under Test (EUT) is a Transceiver operating 49.860MHz. The EUT is power by 1 x 9.0VDC alkaline battery. The EUT has an ON/OFF switch, transmit button (PTT) and pulse generation button (code key). The communication method of the EUT is half duplex.

To transmit the signal, press and hold the transmit button. To send the pulse signal, press and hold the pulse generation button. The receiving mode will active after switching on the EUT.

The circuit of the transmitter comprises of,

1. Encoder: Audio Amplifier and Morse code key  
Consisting: SW2, IC1

2. A RF Oscillator (49.860MHz)  
Consisting: X1

3. A Filter Network  
Consisting: L3, L1, IFT1, C5, C6, C4, C3, R4 and R3

4. Amplifier  
Consisting: Q1, Q2

5. A Power Supply  
Consisting: 9.0V Alkaline battery

6. Speaker  
Consisting: SP

Antenna Gain: 0dBi

Nominal rated field strength: 57.7dB $\mu$ V/m at 3m

Maximum allowed field strength of production tolerance: +/- 3dB