

Model: 91014(Transmitter portion)  
Technical Description of Transmitter

The Equipment Under Test (EUT) is a transmitter of a RC Car system, which is operating at 49.860MHz as dictated by a crystal. The EUT is powered by 2 x 1.5V AA size batteries. The EUT has a pair of control keys and a red LED indicator.

After switching ON the EUT and its corresponding receiver (i.e. car), activating the control key on the EUT can control the receiver moving forward, backward, left and right.

The circuit of the transmitter comprises of,

1. An Encoding circuit  
Consisting: SW1, SW2, SW3, SW4, TX-2B
2. A RF Oscillator  
(49.860MHz) Consisting:  
49.860MHz
3. A Filter Network  
Consisting: L1, L2, C\*
4. A RF Modulator and Amplifier  
Consisting: Q1, Q2
5. A Power Supply  
Consisting: 2 x AA size batteries

The transmitter uses an external, integral and telescope-type.

Antenna Type: External integral antenna  
Antenna Gain: 0dBi  
Nominal rated field strength: 66.8dB $\mu$ V/m at 3m  
Maximum allowed field strength of production tolerance: +/- 3dB