

Technical Description (Transmitter portion)

The Equipment Under Test (EUT) is a transmitter of a RC system, which is operating at 49.860MHz as dictated by a crystal. The EUT is powered by 1 x Block size battery. The EUT has a power ON/OFF switch and control key.

After switching ON the EUT and the corresponding robot (ie. Receiver), activating the control key on the EUT can control the robot moving forward, backward, left and right. It can charge the receiver by plug in the charging port over the receiver.

Antenna Type: Integral, external

Nominal field strength is 66.3dB μ V/m @ 3m

Production Tolerance of field strength is 63.3 dB μ V/m to 69.3dB μ V/m

Antenna gain is 0dBi

The circuit of the transmitter mentioned below.

-SW1, SW2, SW3, SW4 and associated circuit act as a Control key.

-U2(IC-8) and associated circuit act as a RFIC Encoding circuit.

-Q2 and associated circuit act as an Oscillation circuit.

-Q1, L6 and associated circuit act as a Filter.

-X1 acts as a 49.860 MHz crystal and acts as a system clock.