

Technical Description

The Equipment Under Test (EUT) is portable controller for Remote controlled car set which operates at 49.860MHz. The EUT is power by 1 x 9.0V battery.

After switch on the EUT, model: 89021, the car will be moved forward or backward, turned left or right based on the joystick control in the controller.

The Model: 89051, 89071, 89091, 89101, 89111, 89121, 89131, 89181, 89221, 89231, 89241, 89281, 89291, 89301, 89311, 89321, 89331, 89341, 89351, 89391, 89401, 89411, 89421, 89431, 89511, 89441, 5F633F9, 89286, 89136, 89346 and 89246 are the same as the Model: 89021 in hardware aspect. The difference in model number serves as marketing strategy. The models are different in non-conductive outer casing of corresponding receiver only.

Antenna Type: Internal, Integral

The brief circuit description is listed as below:

- 1) U1 Encoding Circuit (TX-2).
- 2) Y1 (49.680MHz) acts as a crystal for Q1.
- 3) Q1 acts as Oscillation Circuit for Q2 (2712).
- 4) Q2 acts as RF Power Amplifier and modulator (2712).
- 5) ZD1 acts as Voltage Regulator for U1, Q1 and Q2 (ZD1)

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength is 61.9 dB μ V/m at 3m

Maximum allowed production tolerance: +/- 3dB