

## Technical Description

The Equipment Under Test (EUT), is a portable 27.145MHz Transmitter (Controller Unit) for a RC car. The EUT is powered by 1 X 9.0V alkaline 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 only.

Antenna Type: Internal, Integral

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

The brief circuit description is listed as below:

- 1) U1 acts as an Encoding circuit (TX-2).
- 2) Y1 acts as an oscillator (27.145MHz).
- 3) Q2 acts as a power amplifier and modulator.
- 4) ZD1 acts as a regulator

Antenna Type: Internal antenna

Antenna Gain: 0dBi

Nominal rated field strength is 66.0 dB $\mu$ V/m at 3m

Maximum allowed production tolerance: +/- 3dB