

Technical Description

Report No.: 18061562HKG-001

The Equipment Under Test (EUT) is a Controller of a RC Car operating at 27.145 MHz as dictated by a crystal. The EUT is powered by 2 x 1.5VDC AA size batteries. The EUT has a left / right control lever and a forward / backward control lever.

After switching ON the EUT and the corresponding receiver of the RC Car, activating the control levers on the EUT can control the receiver moving forward, backward left and right directions.

Antenna Type: External integral antenna

Antenna Gain: 0dBi

Nominal rated field strength: 73.8dB μ V/m at 3m

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

The brief circuit description is listed as below:

- 1) U1 acts as an Encoding Circuit (SOP-14).
- 2) X1 (27.145MHz) acts as a crystal for Q1.
- 3) Q1 acts as Oscillation Circuit for Q1 (C945).
- 4) Q2 acts as RF Power Amplifier and modulator (J3Y).