

Operation Description

70059 R/C Multi-Band Formula Racer

The equipment under test (EUT) is a transmitter for R/C Multi-Band Formula Racer. It is operating at 27.145MHz which is controlled by a crystal and powered by 2 x 1.5V AA size batteries. There are two control sticks and a channel selector in front of the EUT. When the stick is pressed once, a forward, backward, turn left or turn right RF signal will send to the receiver. The EUT provide two channels (A and B) for the same carrier frequency (27.145MHz) but with different coding.

Refer to the transmitter circuit design, the circuit description is listed below:

- Q2, X1 and associate circuit act as oscillator
- Q1 and associate circuit act as RF amplify
- U1 and associate circuit act as encoder
- Q3, Q4 and associate circuit act as voltage control