

# **01165 49.860MHz**

## **OPERATION PRINCIPLE**

### **1.0 Product Description (Receiver)**

The Equipment Under Test (EUT) is a Super-regenerative Receiver for a remote controlled Toy operating at 49.860 MHz. The EUT is powered by 6\*1.5V "AA" batteries. The EUT can be controlled in four moving directions (forward/backward and left/right turn).

The brief circuit description is listed as follows:

- Q14 and associated circuit act as a superregenerative receiver.
- Q1,Q2,Q3,Q6,Q7,Q9 and associated circuit act as a steering motor driver.
- Q4,Q5,Q10,Q11,Q12,Q13 and associated circuit act as a racing motor driver.
- U1,U4 and associated circuit act as decode IC
- U5 and associated circuit act as DC-DC converter for the superregenerative receiver

**Antenna Type: Internal, Integral**