

## **General Circuit Description**

### **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 X 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:

- Q15 and associated circuit act as a RF amplifier.
- Q16,17,20,21,22,23 and associated circuit act as a steering motor driver.
- Q18,19,24,25,26,27 and associated circuit act as a racing motor driver.
- U1 and associated circuit act as decode IC.
- D2, Q2 and associated circuit act as power Regulator circuit to supply the 2.7V power for pre-amp circuit and decode IC.