

Dickie Spielzeug GmbH & Co. KG; Module 27051TX

Circuit Description

(With reference to Circuit Diagram and Blockdiagram)

The circuit of modul 27051TX is basically divided in four parts:

1. Oszillator (carrier frequency)
2. Modulation of signal
3. RF amplifier
4. Output circuit with antenna

The Oszillator unit produces an carrier frequency of 27.145 MHz by using a quartz crystal.

The modulation is gained by an IC, beeing operated by the user trough the switches.

Carrier and modulated signal are superposed by using two transistors, amplifying the modulated carrier.

The output circuit, beeing realised by capacitors and inductances matches the RF amplifier to the antenna providing RF-power being transfered to the antenna.