TRX970 Operational Description

The 2 way pager is a very low-powered remote control/ monitoring device used in motoring the automobile security status as well as in remotely arming/disarming car security system and audible pepping warning sound during alert mode. Its features and functions are described in the attached pager.

The transmission is powered by a 3.7 recharge Lithium Polymer battery and works on 915 MHz single fixed frequency. Details of circuit diagram and block diagram are shown on the attached sheets.

There are total 4 buttons, which if pressed will produce the digital control signals and modulate the carrier signal. The carrier signal is generated by a crystal oscillator/ amplifier circuit composed of a 915 MHz crystal and a NPN transmitter The modulated output of RF amplifier stage is coupled to the coil.

This EUT works as a FM modulation. Signal HI will trigger FM OSC to generate a 915.004MHz frequency and signal LOW will trigger FM OSC to generate a 914.996MHz frequency. The single is controlled by the CPU control data input inside the control unit.
Normally the transmitting time is about 0.6 seconds, the maximum is lasting for 4.5seconds.

All the turning and verification are done by manufacture during the production process and no adjustment is allowed by any consumer. No external ground is needed in such device.