

**Ranger 3 Fm**  
**FCC ID#: IFHR3F75B**

**Operational Description**

The Ranger 3 FM is a low power, non-voice, transmitter intended for remote control of model vehicles in the 75MHz band. The unit is held with two hands in front of the body.

The equipment employs a vertical polarized antenna, directly mounted on the unit and meets Paragraphs 95.645, 95.647, 95.649, and the technical requirements established in the Report & Order in PR Docket 90-222.

**Circuits and Devices to Stabilize Frequency**

Transmitter output frequency is determined and stabilized by crystal-controlled oscillator.

**Circuits to suppress Spurious Radiation**

Final RF amplifier spurious emissions are attenuated by a "PI" matching network consisting of C43, L2, C28, C32, C29, L3, T4, and T5.

**Functions of Active Semiconductors**

Reference	Type	Function
Q1	C1623	Buffer/SW
Q3	C1623	Modulator
Q4	C2223	Driver/ X-Tal Oscillator
Q5	C2223	Driver
Q6	C4735	Final amplifier
IC2	KS86P4004	Encoder