

Operational Description

In the V-motion detector for USA/Canada, the module of wideband transmitter RFT-3A-315MHz is used. It consists of an oscillator with 315 MHz SAW resonator, antenna matching circuit and Helical antenna.

The TOP side of the module is a ground plane.

The Module has a three pin interface with the main board- data , VCC and ground.

Data rate is 1.2kbit/s.

When pulses of data come to the oscillator input, it begins to generate packets of 315MHz.

The width of packets complies with the width of pulses. In this way ASK modulated signal is generated.

RF signal through matching circuit goes to the antenna input and is radiated on-air.