

Dear Sir/Madam,

According to your Inquiry Tracking Number 734370, we replied to the following questions :

**1) How does this device operate?**

—The transmission system consists of a FM transmitter, two power supplies, a MCU controller, a LCD display, an EEPROM programmer, a low battery detector as well as an audio detector. In addition to three-control press keys.

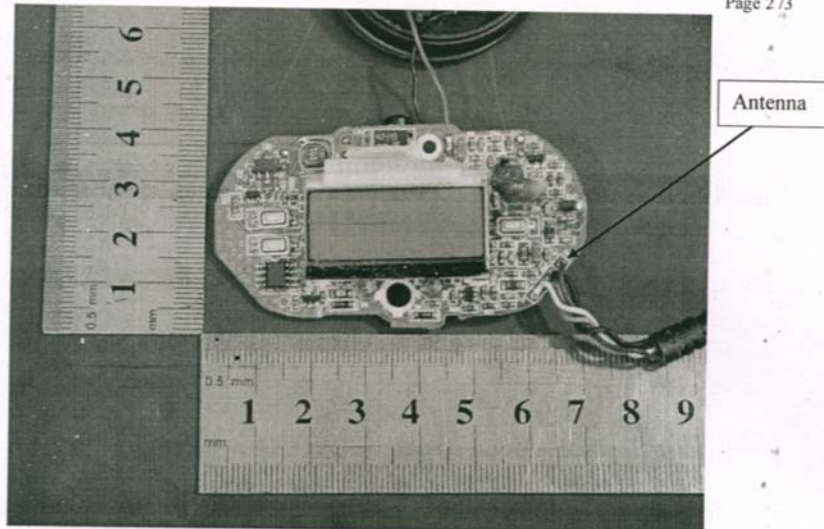
The FM transmitter is a FM stereo transmitting configuration, which radiates FM wave on the air by modulating the any required signal to the carrier signal. The transmission frequency is set from 88.1 to 107.9MHz.

This product has two power supplies, one is the 2x1.5V alkaline battery, and the other is external DC/DC 12VDC/200mA cable. You can choose either one. The DC regulator 78L05 is a step-down three terminal regulator, which transforms 12VDC into 5VDC as the whole system's power. The DC-DC converter XC6371 is a PWM controlled step-up DC/DC converter by which the whole system in a position to obtain 5V supply easily.

There are three function press buttons. One is up button, another is down button, and the other is memory button. Users employ those keys to manipulate this is easier than the former version. In addition to the above function, we can press and hold both up and down buttons simultaneously for about two seconds turn on the unit. To turn off the unit, press and hold both buttons simultaneously again for two seconds or so. At operation mode, press M button will toggle among the 4 memory slots to retrieve the memorized frequency. Moreover, when there is no key press after ten seconds the unit will return from memory mode back to operation mode.

**2) Provide information on the device and its antenna.**

—This product is designed to transmit audio from your iPod to your car stereo. The transmitter utilize dipole antenna. The antenna was solder to PCB.



**3) How is it installed?**

— This product has two power supplies, one is the 2x1.5V alkaline battery, and the other is external DC/DC 12VDC/200mA cable. There is a dc socket on the EUT.

**4) What test procedure was used?**

— ANSI C63.4. the test was performed in the chamber.

**5) If tested in a car, how was it configured/tested? At the present time, FM transmitters (subject to 15.239) tested in vehicles must also be tested on a test table. Provide both sets of data. All data must be compliant**

— The device was tested on a 3M OATS

**6) Was the tuning range properly verified? The test lab should indicate in the report that the tuning controls were manually adjusted to verify maximum tuning range.**

— The FM transmitter is a FM stereo transmitting configuration, which radiates FM wave on the air by modulating the any required signal to the carrier signal. The transmission frequency is set from 88.1 to 107.9MHz.

We selected the low(88.1MHz) mid(98MHz) and High(107.9MHz) working frequency to measure the frequency. Press the  $\uparrow$  or  $\downarrow$  button on the TuneCast Auto to select the transmission frequency .



**7) Was the bandwidth properly tested with maximum audio input? Use a typical audio file from a typical device. e.g. Do not use a 1 kHz signal from a signal generator.**

— The test was performed with the maximum audio input. And play MP3.

**8) Provide the test report.**

— The test report is provided.

Best Regards,

John Son