

KDB Inquiry – Permit but Ask

a. Category:

Permit But Ask

b. Rule part under which the device authorization will be requested;

15.239

c. Description of the device including specific selection of 1 – 4 from the Permit But Ask list above (use the text description), and equipment class;

FM band modulators / transmitters operating under 15.239 of the FCC rules.

d. Explain the specifics of why this device is in one of the 1-4 Permit but ask categories.

Category 1 - 15.239 FM transmitter

e. Description of the test procedure plan.

According to ANSI C63.4-2003 on a test table.

f. For FM transmitters, also supply the following information;

i. Describe the operation of the device.

Device is in-car FM transmitter to play MP3 files on a conventional car FM tuner. User can plug in an MP3 player or similar device to the 3.5mm stereo input jack port of the device. It plays back the music files on one of the 12 available channels to be received by the in-car FM tuner. These 12 channels are:

88.1, 88.3, 88.5, 88.7, 88.9, 106.7, 106.9, 107.1, 107.3, 107.5, 107.7, 107.9 MHz

Device is DC powered by the vehicle battery through cigarette-lighter.

It also provides:

- 120 VAC power outlet for low powered electronic devices
- Converts in vehicle 12VDC to 5VDC for USB charging port
- Provides an additional 12VDC plug

For additional information user's manual is attached.

ii. Provide information on the device and its antenna.

Information about the device is as described above. The antenna is surface mount chip antenna. Internal photos show the antenna with a pointer.

iii. How is it installed?

It is connected to the cigarette lighter of the car for DC power. Music input is via 3.5mm stereo input jack. More details are provided in the manual.

iv. Describe the test procedure used.

Tested according to ANSI C63.4-2003 on a test table.

Input volume from Ipod Nano was set to maximum.

Ipod was playing an audio file.

Tuning controls were adjusted to verify maximum tuning ranges. No out-of-band violation was observed.

v. If tested in a car, describe how was it configured and tested.

Not tested in a car.

vi. 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

Test Report attached.

vii. 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.

Yes. Pg 6 of the test report indicates this.

viii. Was the bandwidth properly tested with maximum audio input?

Yes. Pg 13 of the test report indicates this.

ix. Use a typical audio file from a typical device. e.g. do not use a 1 kHz signal from a signal generator.

Pg 13 of the test report confirms that actual audio file has been used.

x. Provide the test report showing compliance with the rules.

Test report, operational description, manual and photos of the device are attached.