



April 8, 2011

Request for Modular Transmitter Approval

In accordance with FCC Public Notice DA 00-1407, June 26, 2000

Microchip Technology Inc. requests modular transmitter approval for the MRF89XAM9A module. This letter addresses the numbered requirements below.

1. The modular transmitter must have its own RF shielding.

The module has an integral four-layer PCB design with internal ground and power planes to provide RF shielding and noise immunity.

2. The modular transmitter must have buffered modulation/data inputs.

Data inputs to the module are buffered by a serial peripheral interface (SPI) bus circuitry.

3. The modular transmitter must have its own power supply regulation.

The module has a voltage regulator that controls the internal frequency synthesizer and power amplifier.

4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c).

The antenna is a PCB trace antenna permanently attached to the module.

5. The modular transmitter must be tested in a stand-alone configuration.

The module was tested in a stand-alone configuration.

6. The modular transmitter must be labeled with its own FCC ID number

The module is label with its own FCC ID number. See label and label location drawing contained in this application. Instructions are given to the end user in the module data sheet that if the module is installed inside another device, then the outside of the device must also display a label referring to the enclosed module.

7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.

The module complies with Section 15.247(a)(2) for digital modulation techniques in the 902-928 MHz band and Section 15.249. Mounting and operational instructions are given in the module data sheet which is contained in this application.

8. The modular transmitter must comply with any applicable RF exposure requirements.

The module complies with RF exposure limits for a spread spectrum transmitter operating under Section 15.247(b)(4) and narrowband device under Section 15.249. The end user is notified in the module data sheet of specific installation and operating instructions for users, installers and other interested parties to ensure compliance.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Bible', with a large, stylized flourish at the end.

Steven Bible
Applications Engineering Manager
Microchip Technology Inc.