

## 1. General Product Information

### 1.1 Product Function and Intended Use

The equipment under test (EUT) is a reverse back view system using in car and its FM transmitter operates at 2450MHz.

### 1.2 Circuit Description

This is a reverse back view system using in car. It consists of MCU processor, RF modulate, antenna matching circuit, power amplifier, power management and CMOS Camera IC.

RF modulate consists of a RF modulate IC, Video collector & processor, frequency compound & filter.

Antenna matching circuit consists of transmit transform circuit and antenna.

The CMOS Camera IC will sent NTSC TV standard video signal to the RF modulate circuit when the car reverse lamp supply power to the back view system's Power management circuit. and the RF modulate circuit will modulate the video signal that frequency is 2450MHz with FM adjustment mode, and then it will send to Power amplifier circuit, finally it will transmit from the Antenna matching circuit.

The power of the system was +12VDC that supplied from car reverse lamp, it will be sent each circuit after filter by capacitance.

### 1.3 Ratings and System Details

Frequency range:	2450MHz
Crystal Tolerance	±50kHz
Type of antenna:	external antenna
Power supply	+12V