



Operational Description (RF part)

The EUT has a RF module BT-0002M-1 ISM Transceiver Chipset (Power Class II) that is a short –range. The modulation scheme is GFSK. Where a user presses a key on the EUT, the appropriate signal is transmitted to the processor (AT89LV52). And then the processor transmits the signal to the RF module (BT-0002M-1) via UART interface. The RF module radiates the signal on the air via the SMD chip antenna. See the attached block diagram and schematic.

ANTENNA

The antenna is a SMD chip antenna with maximum gain of 6dB. The antenna is soldered on PCB. No external ground is required or used with this transmitter.

Model: 3030A5839-01

Central frequency: 2.4 ~ 2.5 GHz

Maximum gain: 6dBi

Input impedance: 50 ohms