

FCC ID: SQ9LPR2401
IC: 5768A-LPR2401

Technical Description:

The brief circuit description is listed as follows:

The Treeluminator (RF transmitter) is powered by 3x1.5V, AAA size battery. When pushing the handle of Treeluminator, it emits melody, flash LEDs and transmits RF signal out to turn ON the AC power of its paired wireless power socket. When pushing the handle again, it transmits RF signal out to turn OFF its paired wireless power socket

SW1 is a button activated by pushing the handle.

U2, AM5AD1270-441 and associated circuit act as MCU which emit melody to speaker, flash LEDs and access the address pins (Tx On/Tx OFF) of programmable encoder IC HS2260A-R4

U1, HS2260A-R4 and associated circuit act as Encoder IC which output Tx On/Tx OFF command (DATA pin) to modulator Q1 when corresponding address is accessed.

RF resonator CY1 (433.92MHz), Q1 and associated circuit act as ASK modulator.

L2, C4, C5, L3 and associated circuit act as Low Pass Filter and Antenna Matching Network.

Modulation: ASK (433.92MHz, single channel)

Antenna type: internal, integral (wire type)

Antenna Gain: 0dBi

Nominal rated field strength: 76.3dB μ V/m at 3m

Maximum allowed field strength of production tolerance: +/-3dB