

## **Operational Description of Remote Speaker Microphone (RSM)**

**FCC ID:2AUAOCA19684**

**Model Name:CA19684**

The Remote Speaker Microphone is used for two-way radio voice communication on Radio Transceivers. It has wireless capability to allow wireless Key Fob part number CA16626 to remotely PTT the radio.

The RSM is connected to a Test Radio & the Big Round button is used as 'Push to Talk' to transmit on the radio.

The circuit has a Texas Instruments Microcontroller which controls the Nordic nRF24L01+ RF Low power IC.

### **Features:**

- RF Chipset: Nordic nRF24L01+
- Microcontroller: Texas Instruments: MSP430F1232IPW.
- Modulation :GFSK
- Operation Frequency:2440MHz
- Current Consumption RF Nordic Chipset: nRF24L01+ IC: 11.3 mA (TX)
- Current Consumption for all the circuit: TX: 55mA, RX:85mA with volume setting on Max.
- The Remote Speaker Microphone is normally powered from the 5 to 12 V of radio.
- Size: 98mm x 65mm x 46 mm approximately.
- Weight: 240 grams
- Material: UL94-VO Including Cable
- Antenna Designation: Ceramic Antenna
- Antenna Gain(Peak): -0.5 dBi
- Hardware version number: SD19684 issue 1
- Software version number: SF251

Power Rating Input: DC 12V

Note: The product is used in the car,the power is supplied by DC 12V vehicle battery