Operation Description
TMP3FT-FS(Jack-703)

Operation Frequency: 88.1M-107.9MHz
Modulation Type: FM

1. The unit may be powered by a battery (DC1.5V). Internal DC/DC circuit increases voltage to 3.3V to supply the unit. The unit is in standby mode this moment.
2. When long press “POWER” button 3 seconds, MCU switches on electronically and supply local oscillating circuit and amplifier. The background light is on and to shut off after 5 seconds. MCU recalls the frequency of last use from PLL (31202) and HT1621.
3. R&L of audio signal is filtered by low-pass filter. One is input to local oscillating circuit. The other is input to MCU and is processed to output to local oscillating circuit too. The signal is modulated and amplified to match network. Its harmonics is filtered and it is transmitted by antenna. When no audio input, audio detecting circuit outputs a signal of level 1 to MCU. MCU counts time and will shut down the unit and LCD does not display after 60 seconds. The unit enters to standby mode. When audio input, audio detecting circuit outputs a pulse voltage to MCU, MCU will switch on and LCD displays the frequency of last transmission.
4. S1 and S3 are frequency + and – buttons. S2 and S4 are M1 and M2 memory buttons. Every button is pressed, MCU will control PLL IC and HT1621 to display the same frequency of transmission. At the same time, background is light on and to shut off after 5 seconds.