

2. SPECIFICATION

2.1 GENERAL SPECIFICATIONS

- a) Frequency range : 462.5625 ~ 462.7250 MHz
- b) Output Impedance : 50Ω Unbalanced
- c) Modulation Type : 16K0F3E
- d) Communication Mode : Half duplex
- e) Channel Capacity : 15 channel
- f) Power : 6.0V(alkaline)
- g) Battery Life : Alkaline.1000mAh >14.5hours (Tx5%, Rx5%, Stand-by90%)
- h) Operating Temperature : -30°C ~ +60°C
- i) Dimension : 107(H) x 58(W) x 28(D)
- j) Weight : 140g (without battery)

2.2 ELECTRICAL SPECIFICATION

a) TRANSMITTER

- 1) Output power : Max . 2W
- 2) Frequency Stability : ± 5 ppm(-30°C ~ +60°C)
- 3) Modulation Method : FM
- 4) Oscillation Method : PLL SYNTHESIZER
- 5) Max. Frequency Deviation : $< \pm 5$ kHz (with tone)
- 6) Cooling Method : air-cooling Method
- 7) Spurious Emission : < -46 dBc
- 8) FM Hum/Noise : > -40 dB(1kHz 60% modulation, w/CCITT)
- 9) Distortion : $< 5\%$ (1kHz 60% modulation)
- 10) Tx Audio Response : 6dB / OCT ± 3 dB Pre-Emphasis(300Hz ~ 3kHz)

b) RECEIVER

- 1) Receiver Method : Double Super Heterodyne
- 2) Receiver Sensitivity : -119dBm (12dB SINAD)
- 3) Squelch Sensitivity : -122dBm (12dB SINAD)
- 4) Bandwidth : > 3 kHz (6dB ATT point)
- 5) Selectivity : < -50 dB (25kHz)
- 6) Local Frequency Stability : ± 5 ppm(-30°C ~ +60°C)
- 7) Spurious Response : > 50 dB
- 8) Audio output :3200mW (Internal 4Ω load THD 10%)

- 9) Distortion : $< 5\%$ (1kHz 60% Modulation)
- 10) Rx Audio Response : 6dB/OCT ± 3 dB De-Emphasis(300Hz~2.5kHz)
- 11) S/N Radio : < 40 dB(1kHz 60% modulation w/CCITT)
- 12) IF : 1'st IF --- 21.7MHz
2'nd IF --- 450kHz
- 13) Local Frequency : 1'st Local Frequency --- $f_c - 21.7\text{MHz}$
2'nd Local Frequency --- 21.250MHz