

2. SPECIFICATION

2.1 GENERAL SPECIFICATIONS

- a) Frequency Range : 462.5500 462.7250 / 467.5625 ~ 467.7125 MHz
- b) Output Impedance : 50 Unbalanced
- c) Modulation Type : 8K50F3E , 8K50F1D(selective calling)
- d) Communication Mode : Simplex
- e) Channel Capacity : 22 channel
- f) Channel spacing : 12.5 KHz
- g) Power : 6.0V(ALCA 1.5V X 4AAA)
- h) Battery Life : ALCA. 1000mAh > about 18hour
 NI-MH 600mAh > about 11hour
 (Tx:800mA) 5% ,(Rx:150mA) 5% ,(Stand-by 10mA) 90%
- i) Operating Temperature : -30 +50
- j) Dimension Only set 114(H) x 62.5(W) x31(D)mm
 Only ANT 70(H)
- k) Weight : 190g (with Battery)

2.2 ELECTRICAL SPECIFICATION

a) TRANSMITTER

- 1) Output power : Max. 2.0 W/0.5 W(only FRS)
- 2) Frequency Stability : $\pm 5\text{ppm}(-30 \quad -20 \quad) / \pm 2.5\text{ppm}(-20 \quad +50 \quad)$
- 3) Modulation Method : FM
- 4) Oscillation Method : PLL SYNTHESIZER
- 5) Max. Frequency Deviation : $< \pm 2.5 \text{ KHz}$ (with tone)
- 6) Cooling Method : air-cooling Method
- 7) Conducted Spurious Emission : $< -13\text{dBm}$
- 8) FM Hum/Noise : $> 40\text{dB}(1\text{kHz } 60\% \text{ modulation})$
- 9) Distortion : $< 5\%$ (1kHz 60% modulation)
- 10) Tx Audio Response : $6\text{dB}/\text{OCT} \pm 3\text{dB PRE-EMPHASIS}(300\text{Hz } 2.5\text{kHz})$

b) RECEIVER

- 1) Receive Method : Double Super Heterodyne
- 2) Receive Sensitivity : less than -120dBm (12dB SINAD)
- 3) FM Radio Sensitivity : less than -110 (20dB SINAD ,FM:10KHz)
- 4) Weather Sensitivity : less than -120dBm (12dB SINAD)
- 5) Squelch Sensitivity : -120dBm -130dBm(Audio On/Off Point)
- 6) Bandwidth : > 8.5kHz
- 7) Adjacent channel rejection : < 60dB(12.5kHz)
- 8) Local Frequency Stability : $\pm 5.0\text{ppm}(-30 -20) / \pm 2.5\text{ppm}(-20 +50)$
- 9) Spurious Response : > 50dB
- 10) Audio output : 200mW(Internal 8 load THD 10%) EXt 100mW
- 11) Distortion : < 5% (1kHz 60% Modulation)
- 12) RX Audio Response : 6dB/OCT +1/-10dB DE-EMPHASIS(300Hz 2.5kHz)
- 13) S/N Ratio : < 40dB(1kHz 60% Modulation)
- 14) IF : 1'st IF = 21.7MHz
2'nd IF = 450kHz
- 15) Local Frequency : 1'st Local Frequency = $f_c - 21.7\text{MHz}$
2'nd Local Frequency = 21.25MHz