

2. SPECIFICATION

2.1 GENERAL SPECIFICATIONS

- a) Frequency Range : 462MHz, 467MHz
- b) Output Impedance : 50Ω Unbalanced
- c) Modulation Type : 8K00F3E
- d) Communication Mode : Half duplex
- e) Channel Capacity : 14 channel
- f) Channel spacing : 12.5 kHz
- g) Power : 6.0V or 4.8V(PACK)
- h) Battery Life : ALCA.1000mAh >30 hours , NI-MH 400mAh > 15 hours
(Tx5%, Rx5%, Stand-by 90%)
- i) Operating Temperature : -20°C ~ +60°C
- j) Dimension : 95.5(H)x 50(W)x 26(D)mm
- k) Weight : 140g(with Battery)

2.2 ELECTRICAL SPECIFICATION

a) TRANSMITTER

- 1) Output power : Max 500mW
- 2) Frequency Stability : $\pm 5\text{ppm}(-20^{\circ}\text{C} \sim +60^{\circ}\text{C})$
- 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) Spurious Emission : $< -60\text{dB}$
- 8) FM Hum/Noise : $< -40\text{dB}(1\text{kHz } 70\% \text{ modulation})$
- 9) Distortion : $< 5\%(1\text{kHz } 60\% \text{ modulation})$
- 10) Tx Audio Response : 6dB /OCT $\pm 3\text{dB PRE-EMPHASIS}(300\text{Hz} \sim 2.5\text{kHz})$

b) RECEIVER

- 1) Receive Method : Double Super Heterodyne
- 2) Receive Sensitivity : $< 0.28\mu\text{V}(12\text{dB SINAD})$
- 3) Squelch Sensitivity : 6~8dB(12dB SINAD)
- 4) Bandwidth : $> 3\text{kHz}(6\text{dB ATT point})$

- 5) Selectivity : $<-60\text{dB}(12.5\text{kHz})$
- 6) Local Frequency Stability : $\pm 5\text{ppm}(-20^{\circ}\text{C} \sim +60^{\circ}\text{C})$
- 7) Spurious Response : $>70\text{dB}$
- 8) Audio output : $200\text{mW}(8\Omega \text{ load THD } 10\%)$
- 9) Distortion : $<5\%(1\text{kHz } 60\% \text{ Modulation})$
- 10) RX Audio Response : $6\text{dB/OCT} \pm 3\text{dB DE-EMPHASIS}(300\text{Hz} \sim 2.5\text{kHz})$
- 11) S/N Ratio : $<40\text{dB}(1\text{kHz } 70\% \text{ modulation})$
- 12) IF : 1st IF = 21.7MHz
2nd IF = 450kHz
- 13) Local Frequency : 1st Local Frequency = $f_c - 21.7\text{MHz}$
2nd Local Frequency = 21.25MHz