

KHM-210R Specification

1. General

This spec sheet define specification for The KJTS Bluetooth® Mono Headset. (KHM-210R)

2. Product Features

2.1 MMI (Man Machine Interface)

- Buttons : 3 pcs [Pwr/ End, Volume Up, Volume Down]
- Receiver : 1 pcs
- Microphone : 1pcs
- Charging Jack : 1 pcs

2.2 Features

- Bluetooth V2.0 Specification Compliant
- Class 2 support
- Supports hands free & headset profile
- Last number redial
- Voice dial / Call Reject / Cancel / Waiting
- Low power consumption Excellent voice quality
- Internal rechargeable Li-Ion Polymer Battery

3. Specification

3.1 General Specification

| Item | Description |
|--------------------------------|---------------------------------------|
| Bluetooth Specification | V2.0 |
| Supported Profile | Handsfree / Headset profile |
| RX Sensitivity | Typ -70dBm |
| Battery | 3.7V, 70mAh Li-Ion Polymer |
| Low Power Current (Sniff Mode) | ≤ 1 mA (Avg) |
| Standby Time (Sniff Mode) | Up to 120 Hr |
| Talking Time | Up to 5 Hr |
| Full Charging Time | ≤ 3 Hr |
| Operating Humidity | 5% ~ 85% RH |
| Operating Temperature | -10 ~ 50 °C |
| Storage Humidity | 85% RH |
| Storage Temperature | -20 °C ~ 80 °C |
| FCC Classification | FHSS Sequence Spread Spectrum (FHSS) |
| Operating frequency range | 2402 – 2480 MHz |
| Bands of operation | 2.400 – 2.4835 GHz |
| Number of Channels | 79 |
| Channel Separation | 1MHz |
| Type of Antenna | Chip Antenna |

3.2 RF Specification

| Transmitter Characteristic | | |
|---|-------------------------------|----------|
| Item | Specification | Unit |
| Maximum RF transmit power | -6 to +4 | dBm |
| RF power control range | ≥ 16 | dB |
| 20dB bandwidth for modulated carrier | ≤ 1000 | KHz |
| Adjacent channel transmit power $F=F_0 \pm 2\text{MHz}$ | ≤ -20 | dBm |
| Adjacent channel transmit power $F=F_0 \pm 3\text{MHz}$ | ≤ -40 | dBm |
| Adjacent channel transmit power $F=F_0 > \pm 2\text{MHz}$ | ≤ -40 | dBm |
| $\Delta f_{1\text{avg}}$ "Maximum Modulation" | $140 < f_{1\text{avg}} < 175$ | KHz |
| $\Delta f_{1\text{max}}$ "Maximum Modulation" | 115 | KHz |
| $\Delta f_{1\text{avg}}/\Delta f_{1\text{avg}}$ | ≥ 0.80 | - |
| Initial Carrier Frequency Tolerance | ± 75 | KHz |
| Drift rate | ≤ 20 | KHz/50uS |
| Drift (single slot packet) | ≤ 25 | KHz |

3.3 Receiver Characteristic

| Receiver Characteristic | | | |
|--|-----------|---------------|------|
| Item | | Specification | Unit |
| Sensitivity at 0.1% BER for all packet types | 2.402 GHz | ≤ -70 | dBm |
| | 2.441 GHz | | dBm |
| | 2.480 GHz | | dBm |
| Maximum received signal at 0.1% BER | | ≥ -20 | dBm |

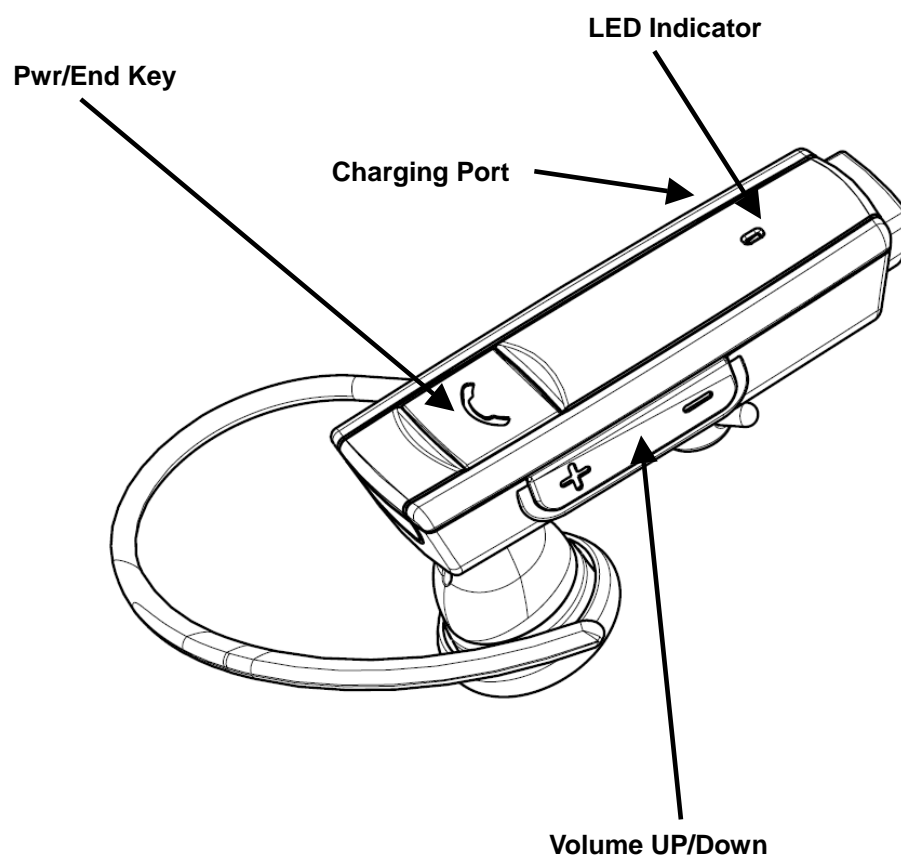
3.4 Electrical(Consumption current) Specification

| Status | Specification | Comment |
|------------------------------------|--------------------------|------------------------|
| Leakage Current | $< 25 \text{ uA (Avg.)}$ | 3.7V (Battery Voltage) |
| Low Power Mode(Sniff Mode) Current | $< 0.75\text{mA (Avg.)}$ | CONNECTED |
| Pairing Mode Current | $< 8\text{mA (Avg.)}$ | |
| Normal Operating Current(통화) | $< 20 \text{ mA (Avg.)}$ | |
| Charging Current | $70 \pm 10\text{mA}$ | $\leq 3 \text{ Hr}$ |
| DC Power Voltage for charging | 5.0V/0.5A | TC |

3.5 Charging/Recharging Status

| Battery Status | Voltage Level (V) |
|------------------------|-------------------|
| Battery Full Voltage | 4.18±0.03 V |
| Battery Full LED State | Off |
| Charging LED State | On |
| Low Battery Warning | 3.4V |
| Cut-Off Voltage | 3.2V |

3.6 KEY Display



3.7 Mechanical Specification

| Item | | Specification |
|--------|--------|---------------|
| Size | Length | 50±0.15 mm |
| | Width | 17.1±0.15 mm |
| | Height | 9.6±0.15 mm |
| Weight | | 9.3g |