

## 1. Overview:

SSRF module works in ISM frequency of north America, by small power transmit to close quarters, transmit hi-fi music signal. In order to assure the true revivification during the audio transmit and transmit without any decrease, the module has enough specific designs in engineering, such as high S/N ratio, stable high frequency PLL design, stereo dispose LR signal transmit, anti-jamming low through fall wave design in dispatch side, low impedance output design in receiver side, no distortion with big acceptance range in low voltage, etc.

## 2. Index of Capability

### **Transmitting module specifications**

- i. Voltage: 2.2~3VDC
- ii. Current: 35mA (TYP)
- iii. Frequency: 914.0MHz
- iv. Power: 5~7dBm
- v. Modulation system: FM
- vi. Frequency Tolerance: 50KHZ (TYP)
- vii. Second harmonic suppression: >30dB
- viii. Largest accommodate scope: 3V (PP)
- ix. Channel separation: >50dB
- x. Frequency response: 20~12KHZ

### **Receiving module specifications**

- xi. Voltage: 2.2~3VDC
- xii. Typical value: 45mA (TYP)
- xiii. Receiving frequency: 914.0/914.5/915.0MHz
- xiv. Receiving sensitivity: better than 15dBu
- xv. Mode: stereo
- xvi. Frequency: 19KHZ
- xvii. Channel separation: >5dB
- xviii. Demodulation audio range: 1.5V (50KHZ tolerance)
- xix. Impedance: typical value 100  $\Omega$
- xx. Distortion: <3%
- xxi. S/N Ratio: >5dB >65dB
- xxii. Effective range: >100meters(put antenna all right)

## **Warning**

FCC Statement This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help