Lotus Key and RF receiving module

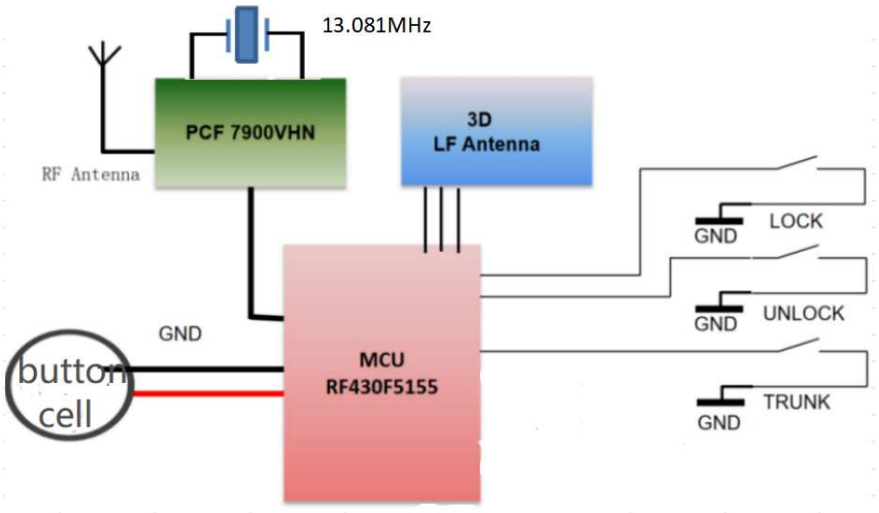
Directory

Product name: LOTUS EMIRA Key Fob
Model No.: T131

一、Key product introduction

1. Function is introduced

The key has three keys, each representing a different function.
1. Unlock: Press the key to unlock for 0.5s, and the key sends out high frequency signal to unlock
2. Locking: press the key locking for 0.5s, and the key sends out high frequency locking signal
3. Trunk opening or closing: Long press the trunk for about 5s, and the key will send the trunk high frequency signal
4.PEPS:When the car key is near the sensing area, as long as the door handle is touched, the key receives the low-frequency signal of the door handle and passes certification, the key sends a high-frequency signal of passive entry, and the vehicle is unlocked. When the key is placed in the car, it will drive the low-frequency antenna to find the key, and the key will reply to the corresponding high-frequency signal after the low-frequency certification, and the vehicle will start



2. Key performance parameters

2.1 Radio frequency (rf) parameters

RKE (Short press to lock, short press to unlock, long press trunk)

Transmitting	CH1	CH2
Center point frequency	433.66MHz	434.18MHz
Modulation mode	FSK	FSK
Carrier baud rate	7.8125kbps	7.8125kbps
Modulation depth	12-15.625kHz	12-15.625kHz

KV (134.2kHz low frequency receiving wake-up trigger):

Transmitting	CH1	CH2
Center point frequency	433.66MHz	434.18MHz
Modulation mode	FSK	FSK
Carrier baud rate	9.6kbps	9.6kkbps
Modulation depth	15-19.2kHz	15-19.2kHz

2.2 Low-frequency parameter

The low frequency carrier frequency is 134.2KHz±1% receiving

2.3 Electrical performance parameter

The rated voltage：3V±0.1V
Working current：1mA≤Working current≤10mA
The static current：The static current≤10uA
Maximum radio power: -28dBm

3. Software and Hardware Version

SW：V01
HW：V01

二、Key appearance

三、Key product maintenance

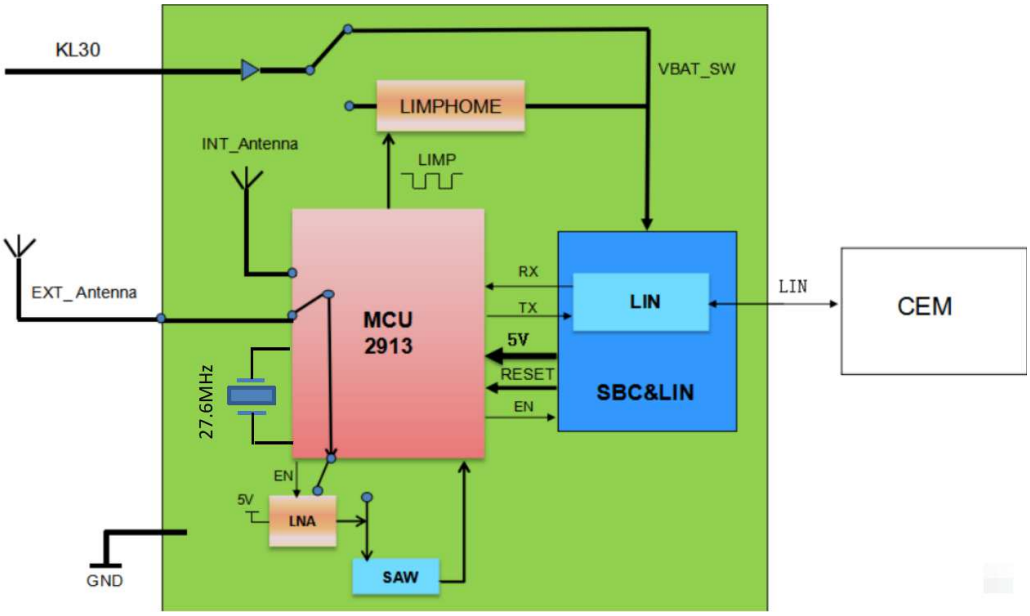
1. Avoid contact with sharp objects and scratch the surface.

2. Replace the battery when the key power is low

四、RF receiving product introduction

1.Function is introduced

Receive the high frequency signal sent by key and tire pressure and forward it to CEM via LIN line



2.RF receiving performance parameters

2.1 Radio frequency (rf) parameters

Message type	function	(RF) type	Modulation mode	Receiving/transmitting	RF center frequency point
RKE	Lock trunk unlock	RF	FSK	RX	CH1:433.66MHz CH2:434.18MHz
KV	Passive into Vehicle launch	RF	FSK	RX	CH1:433.66MHz CH2:434.18MHz
ERS	Remote start	RF	FSK	RX	CH1:433.66MHz CH2:434.18MHz
TPM	Tire pressure	RF	FSK	RX	433.92MHz

2.2 Electrical performance parameter

The rated voltage：13.5V±0.5V

Working current：1mA≤Working current≤35mA
The static current：1mA≤The static current≤2.5mA

3.Software and Hardware Version

SW：V01
HW：V01

五、RF receiving product installation

Product installation requirements:
1、away from the motor and hd camera wiring harness, distance from the sheet metal has a certain distance.
2、the height from the ground ≥0.7 meters
3、Distance from metal parts ≥3cm, avoid shielding around

六、RF receiving product maintenance

Check the wiring harness regularly to ensure smooth wiring.

七、Others

Do not ingest battery, Chemical Burn Hazard
This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
Keep new and used batteries away from children.
If the battery compartment does not close securely, stop using the product and keep it away from children.
If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention

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.

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

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.

ICES statement：

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1)L'appareil ne doit pas produire de brouillage;

(2)L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CAN ICES-003 (B)/NMB-003(B)

Factory：

Wuhu Atech Automotive Co., Ltd.

48th Yinhu North Road, Wuhu Area, China (Anhui) Pilot Free Trade Zone, Wuhu, Anhui Province, China

Manufacturer:

Wuhu Atech Automotive Co., Ltd.

48th Yinhu North Road, Wuhu Area, China (Anhui) Pilot Free Trade Zone, Wuhu, Anhui Province, China

EU Importer:
XXXXXXXXX
XXXXXXXXX

UK Importer:
XXXXXXXX
XXXXXXXX

TRC type approval No. XXXXXX

IFETEL: XXXXXXXXX-XXXX,

OMAN - TRA
X/NNNN/YY
Dyynnnn

NTC
Type Accepted
No. ESD-CPE-XX-XXXXX

COMPLIANCE LABEL

Complies with IMDA Standards [Dealer's Licence No.]

Label Size 17mm by 9mm
(Not to Scale)

Complies with IMDA Standards DB123456

Example

TDRA
هيئة تنظيم الاتصالات والحكومة الرقمية
TELECOMMUNICATIONS AND DIGITAL GOVERNMENT REGULATORY AUTHORITY

TDRA - UNITED ARAB Emirates
Mode Dealer ID Name:
TARTTE:
Model Name:
Product Type

กสทช.

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Unique Identifier: (e.g., Name, Model Number)

Responsible Party – U.S. Contact Information

ABC Corporation
Steed Address
City, State
Zip Code

Telephone number or internet contact information

FCC Compliance 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.