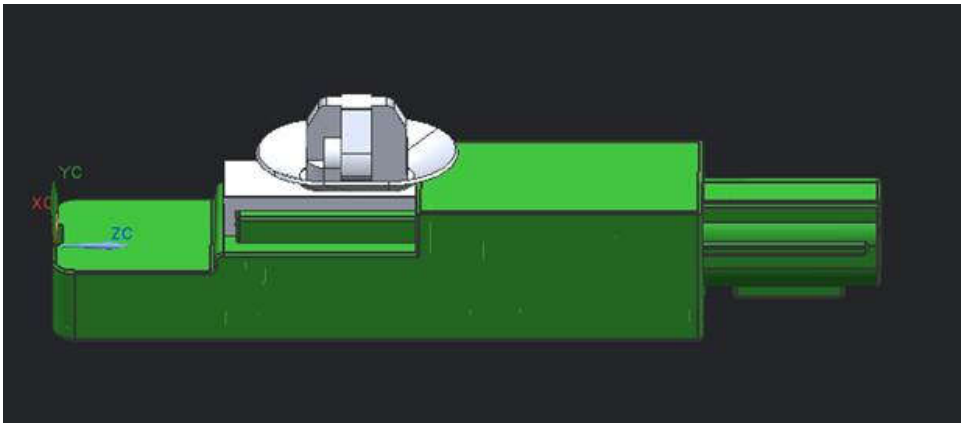
In-vehicle detection antenna assembly

1、Function and purpose: Send low-frequency signals to detect electronic keys.
2、Power supply mode: controller power supply
3、 External interface: VBAT, GND
4、Product shape and size (product photos or design drawings can be provided)

Model Name: S6-3642400-D1, FCC ID: 2A5DH-S6-3642400-D1
Model Name: S6-3642400, FCC ID: 2A5DH-S6-3642400

Exterior:



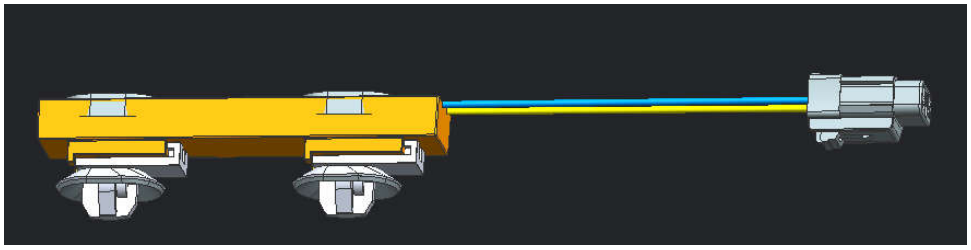
weight：48g
size：256mm*30mm*17mm

Model Name: G3-3642300, FCC ID: 2A5DH-G3-3642300
Exterior：

weight：39.3g
size：96.6mm*27.2mm*18mm

Model Name: HC-3642600, HC-3642600-Y1, FCC ID: 2A5DH-HC-3642600-Y1

Exterior：

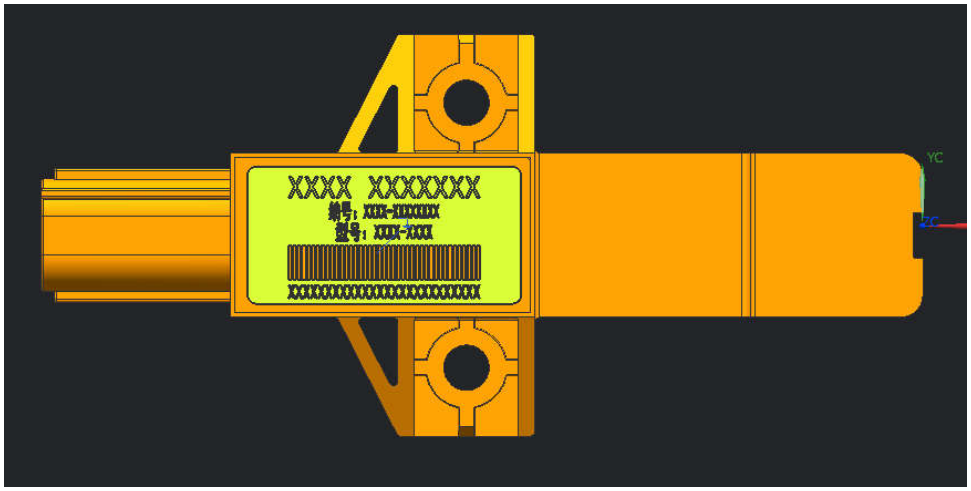


weight：31g

size：191.5mm*14.9mm*24.4mm

SCED-3642300

Exterior：

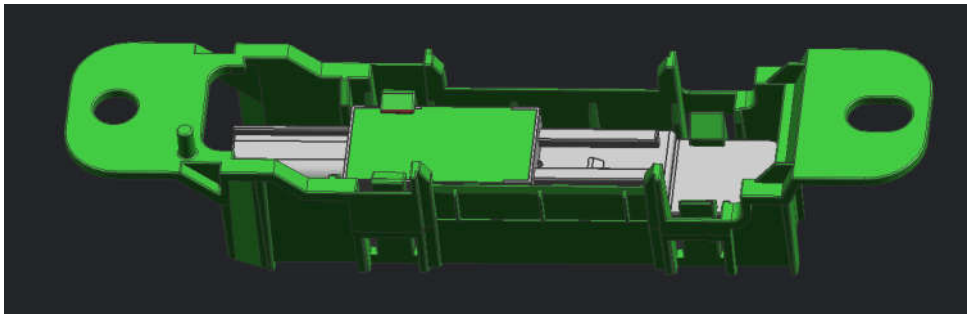


weight：30.9g

size：96.6mm*44mm*17.1mm

EG-3642300

Exterior：

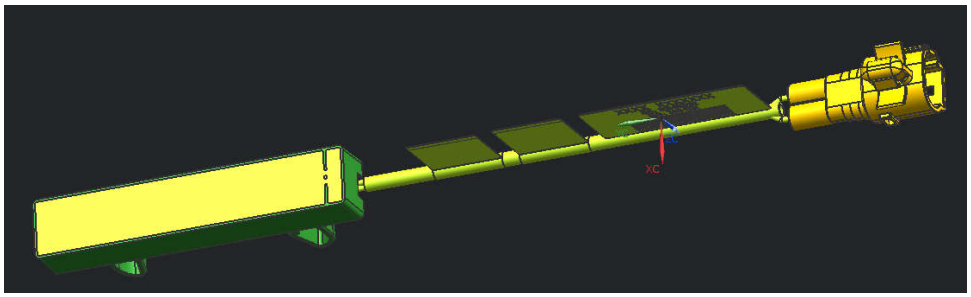


weight：62g

size：153.2mm*31.4mm*33.6mm

ST-3642300

Exterior:

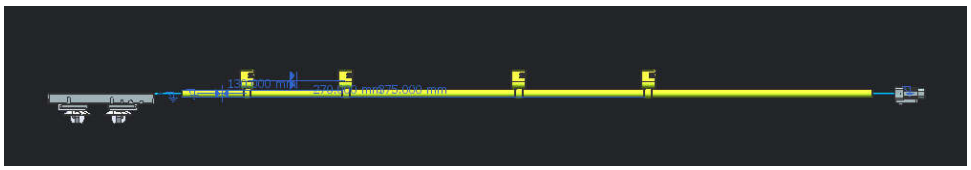


weight: 48g

size: 256.4mm*17mm*13.3mm

EM2E-3642600/EM2E-3642600Z

Exterior:



weight: 57.6g

size: 711.5mm*14.9mm*24.4mm

5.RF Specifications:

6.Product usage scenarios

PKE\PKS

7.The electrical parameters of the product, input and output voltage and current, etc.

Steady state operating current 120mA

Inrush current and locked rotor current 200mA

Maximum operating current 2A

8.The wireless parameters of the product, such as the frequency used, the modulation method

125KHz±3KHz

Modulation: ASK

9.The simple working principle of the product

The controller supplies power to the antenna to drive the antenna to transmit low-frequency signals, and the electronic key receives low-frequency signals to transmit high-frequency signals to the vehicle for authentication.

10.What is the specific communication of wireless transmission (reception) specifications, Bluetooth, wifi, 2/3/4/5G working frequency band

low frequency communication

11. Transmit and receive power

No rated power, calculated from the controller supply voltage and current.

In-car low-frequency antenna:

inductance491±10uH;

Resonant frequency125±3 kHz;

Resonant impedance2 ~4Ω。

Steady state operating current 120mA

Inrush current and locked rotor current 200mA

Maximum operating current 2A

In-car multi-function antenna (SCED-3642300-Y1)

inductance: 350±10uH

Steady state operating current 120mA

Inrush current and locked rotor current 200mA

Maximum operating current 2A

FCC Requirement :

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

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.

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.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.