

Manufacturer	Shengzhou Hengli Electrical Appliance Co. Ltd
Address	3rd Floor, No. 11, Jiajia Road, Chengdong Subzone, Economic Development Zone, Shaoxing, Zhejiang, CN
Antenna type	PCB antenna
Antenna Gain	0.59 dBi for SRD 433

1.Test equipment and conditions:

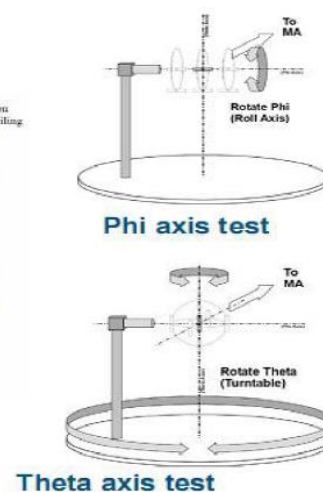
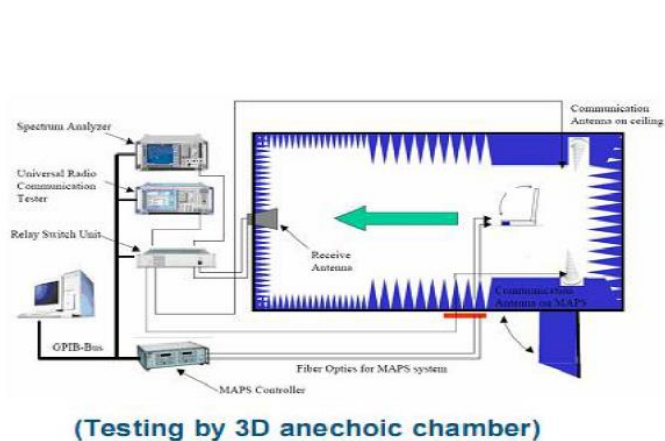
1.1.Network Analyzer

Agilent 8753D Agilent 5071B

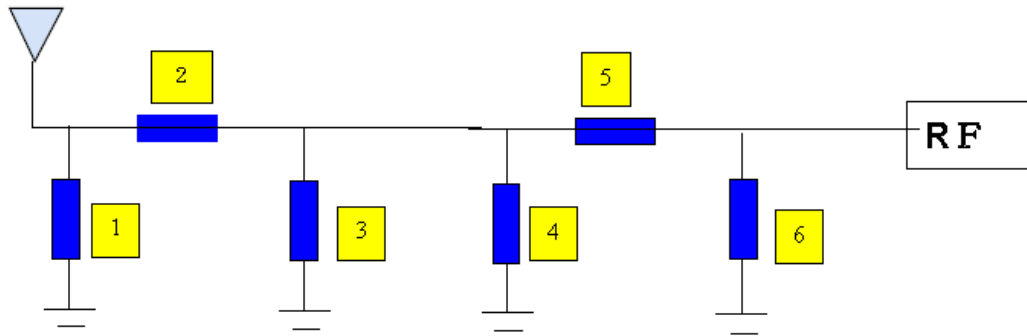
1.2.Communication test equipment

Agilent E5515C R&S CMW500

1.3.Test system



1.4.Matching circuit

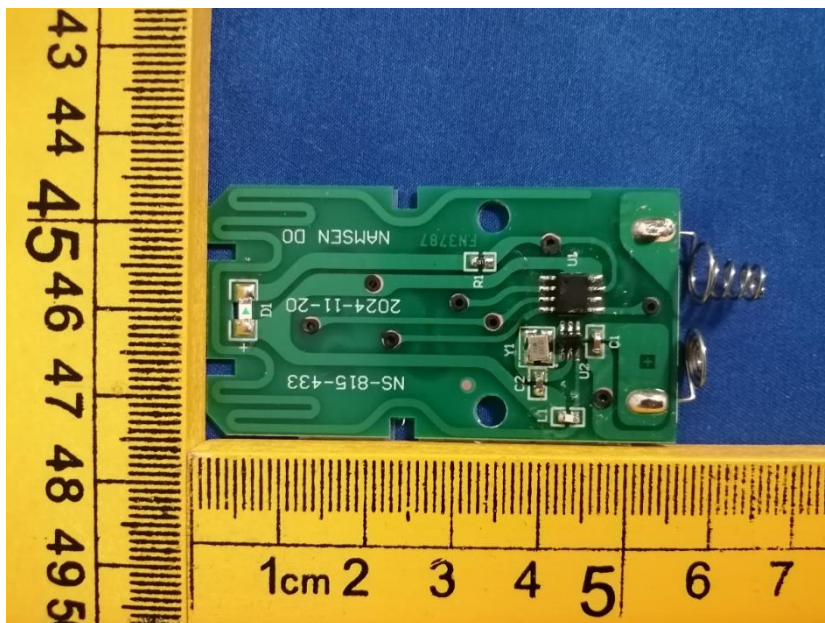


1.5 Antenna Information

This document introduces a fixed PCB antenna lead structure, with the antenna set to a single frequency for operation in the 433MHz ISM band.

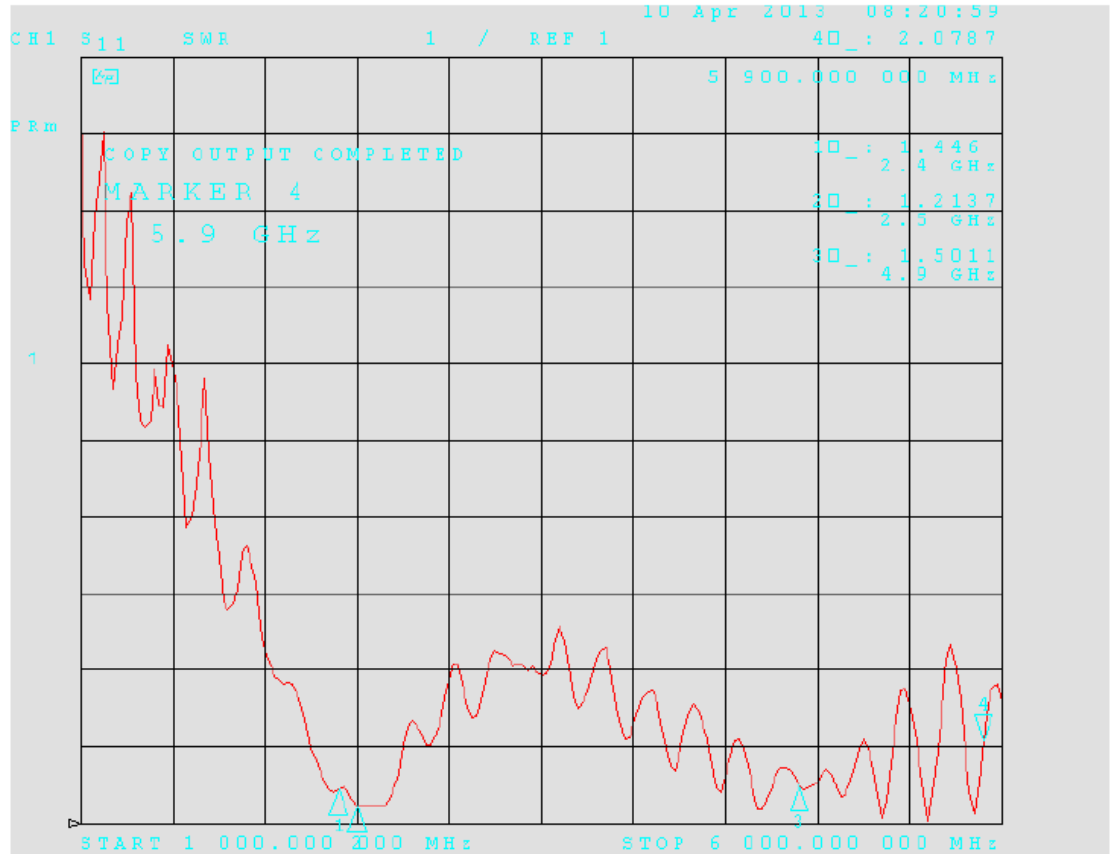
The overall size requirement for the antenna is 20mm × 8.3mm. The antenna in this solution is small in size and low in cost. The figure below shows the layout of the PCB antenna with surface-mounted external components.

Antenna Photo



2.Test Data:

2.1. Standing wave ratio



2.2.Efficiency and Gain

Passive Test For 433MHz			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
433	60	-3.3	0.59

2.3.Directivity diagram

