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| 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:

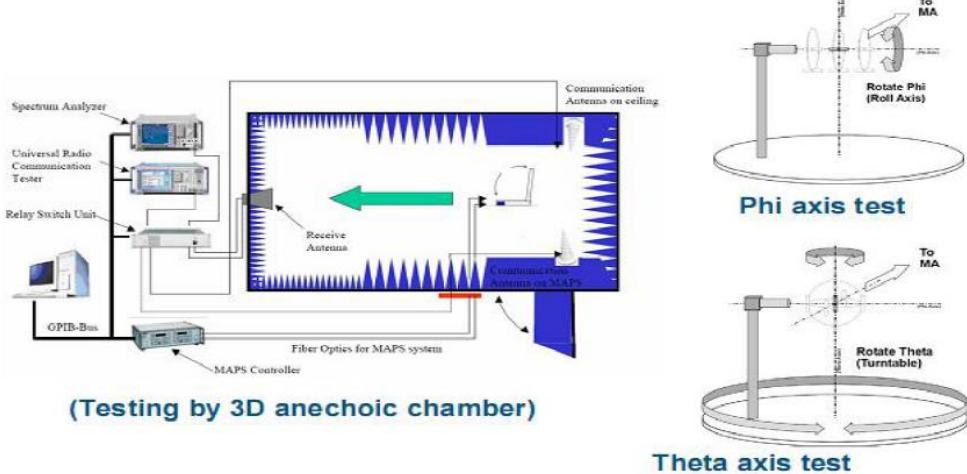
1.1. Network Analyzer

Agilent 8753D Agilent 5071B

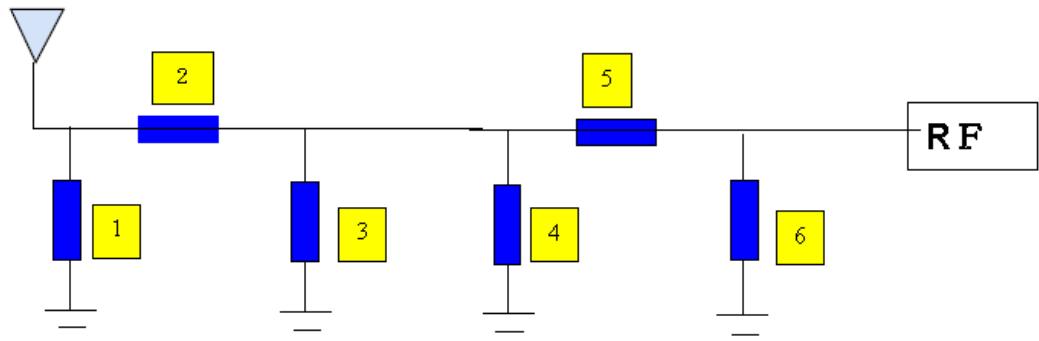
1.2. Communication test equipment

Agilent E5515C R&S CMW500

1.3. Test system



1.4. Matching circuit

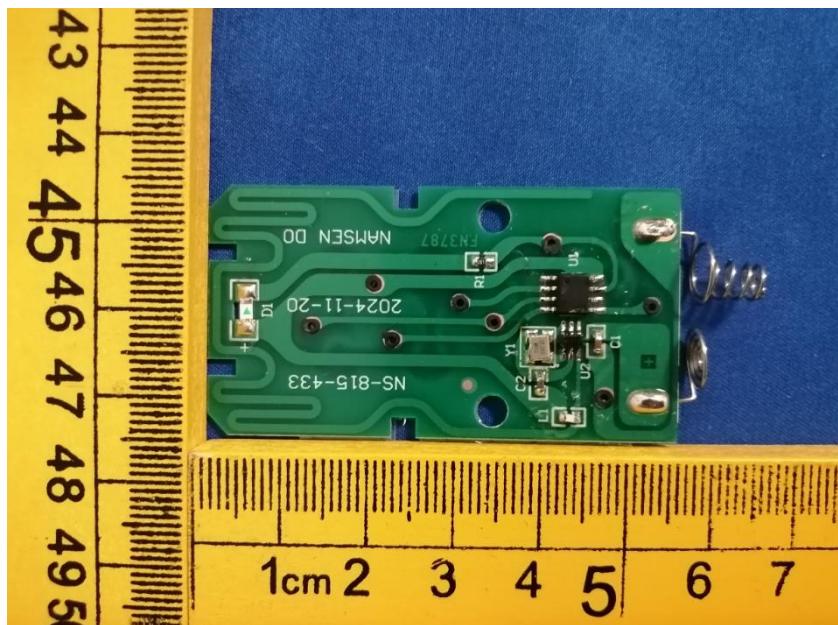


1.5 Antenna Information

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

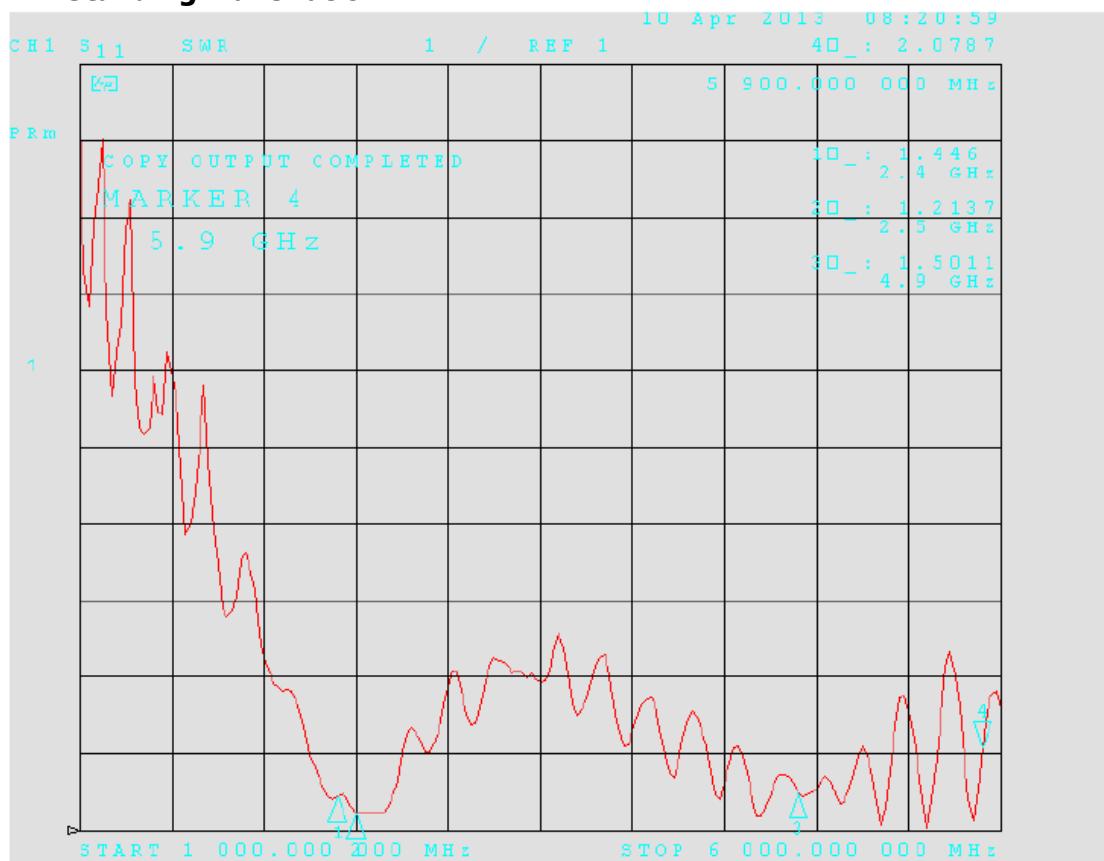
The overall size requirement for the antenna is 20mm x 8.3mm. The antenna in this solution is small in size and low in cost. The figure below shows the layout of the PCB antenna with surface-mounted external components.

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

