



规格书

Specification

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客户品名：
DESCRIPTION: 捷雷料号：
P/N: **C168-JL-3821**

捷雷品名：
PART NO: PCB Antenna; V1.2

Reviewer	Approved	Provide
Frank	WenSen	Sean
2023.07.26	2023.07.26	2023.07.26

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REV.

DAET	REV.	Discribe
2023-07-26	V1.2	<u>Add gain value and pattern</u> parameters
2019-08-27	V1.1	Correct dimensions
2019-07-29	V1.0	first edition



1. Electrical Performance

A.Electrical Characteristics	
S.W.R	<2.0@902-928MHz
Frequency Range(MHz)	902-928MHz
Impedance	50 Ohm
Gain	MAX: -0.3dBi@902-927MHz
B.Material	
Nickel plated phosphor copper	
C.Environmental	
Operation Temperature	-20°C~65°C
Storage Temperature	

2. Measurement Setup

(1) Reflection coefficient Measurement:

(a) **Instrument:** Network Analyzer

(b) Setup:

(I) Calibrate the Network Analyzer by one port calibration using Agilent calibration kits.

(II) Connect the antenna under test to the Network Analyzer

(III) Measure the S_{11} (reflection coefficient) shown in Fig.1

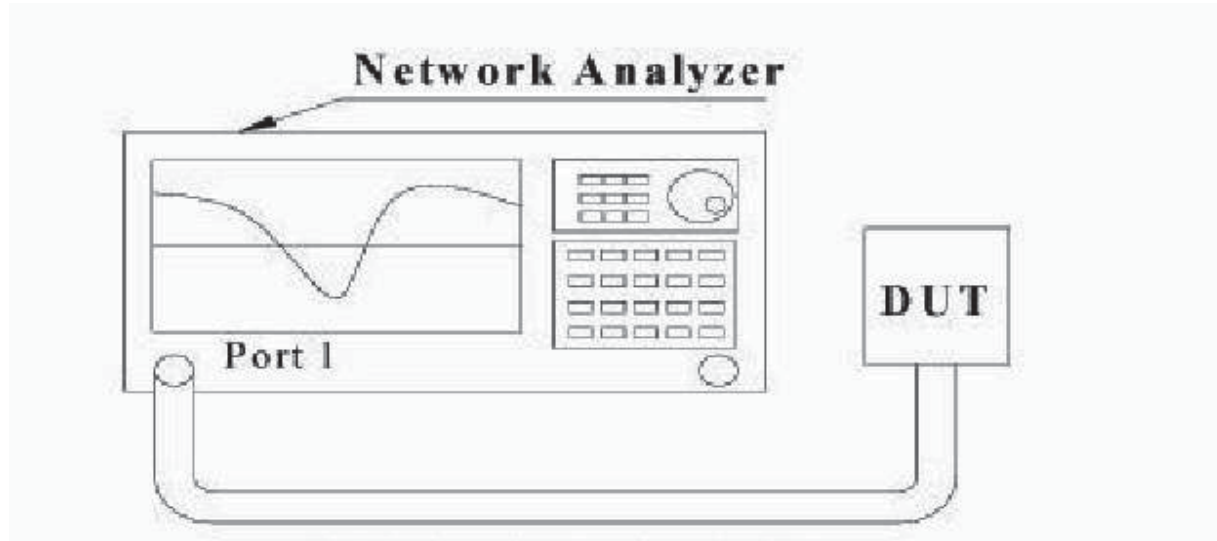


Fig.1 Measure S_{11} on Network Analyze



2.1 Test equipment

Standing wave test equipment

The VSWR was tested with the Agilent Loss Network Analyzer E5071C. The analyte is placed smoothly on a non-conductive material with a small permittivity, or suspended for testing.

Efficiency test equipment

The efficiency test equipment is tested by a darkroom built by Jetray. Includes active and passive testing of antenna 3D performance, CTIA-compliant OTA performance testing (TRP&TIS). The outer structure of the anechoic chamber measures 7m×5m×3 m (L×W×H), which can test antennas from the 700MHz-6GHz frequency range. During the test, the test to be tested is stably fixed on the turre.



3. Mechanical Dimension Drawing



size: 22*6mm



4.Sample Test Report

Freq (MHz)	Effi (%)	Max (dB)
902	28.14	-2.16
907	29.58	-1.63
912	32.03	-1.05
917	33.96	-0.65
922	35.51	-0.44
927	37.2	-0.34
928	37.67	-0.31

