

SPECIFICATION FOR APPROVAL

Date 2018 / 6 / 20
File No 18062002
Revision 1.0

CUSTOMER: _____

CUSTOMER NO: _____

PART NAME: wifi antenna

SUPPLIER NO: S-0001-T

Date: 2018.6.20

Q"TY: PCS

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN

Statement of recognition

NO.	Contents	Number of Page	Page Code
1	Spec Cover	1	1
2	Spec Item	1	2
3	Drawing	1	3
4	Test Reports	1	4
5	S Parameter	1	5
6	Gain Test	1	6
7	N/A	N/A	N/A
8	-	-	-
9	-	-	-
10	-	-	-
11	-	-	-
12	-	-	-
13	-	-	-

Test Reports

Electrical Properties	
Frequency	2400 -2450- 2500 MHz
Impedance	50 Ohm Nominal
V.S.W.R	1.92 : 1 Max
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	2 dBi
Cable Loss	3.2 dB / m Max @ 2450 MHz
Polarization	Linear, Vertical
Admitted Power	1 W
Connector	N/A
Physical Properties	
Antenna Material	TPE / PC / CU
Cable Type	O.D 1.13 mm // 50 mm
Operating Temp.	-10 ~ +60 °C
Storage Temp.	-10 ~ +70 °C
Cable Color	Gray

RoHS
Compatible

CUSTOMER
PART NO

REV.

A

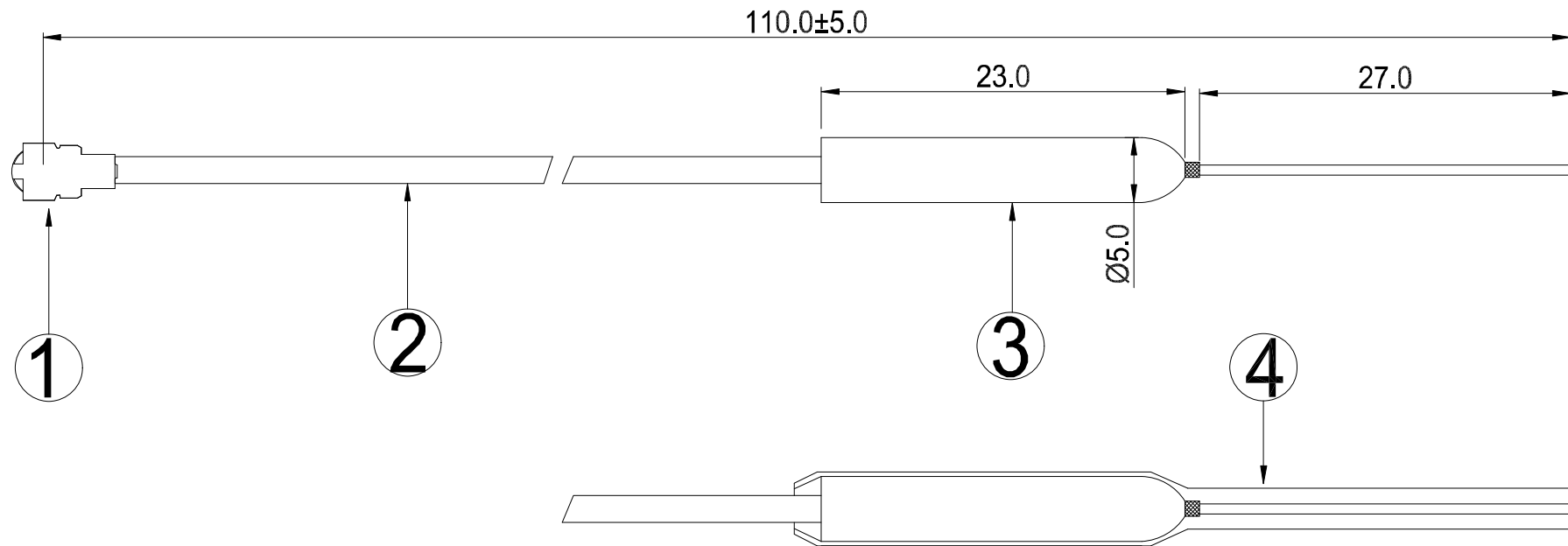
B

DESCRIPTION

首次发行

DATE

2023-03-10



4	Shrink Tube	Ø3.0*40.0MM Black	EVA	1
3	Copper Tube	Ø3.0*23.0mm	Cu Si Plated	1
2	Coaxial Cable	O.D 1.13 Black	O.D 1.13	1
1	Mini Connector 1G	Cu Au Plated	Cu	1
NO	PART NAME	DESCRIPTION	Material	Q.TY



东莞市思博通讯有限公司
Dongguan Siboo Communication Co., Ltd

PART NAME: 2.4GHz 2dBi Antenna

PART NO.: S-GD-24004

DATE: 2023-03-10

APPROVED BY

CHECKED BY

DESIDNED BY



UNITS: mm

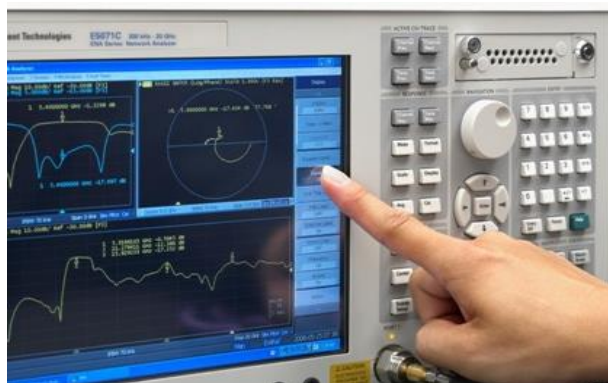
SCALE: 1/1

REVISION: A

Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°

Antenna Performance Test

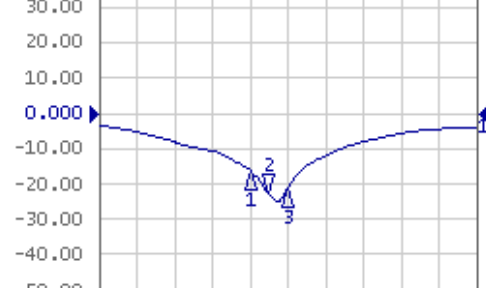
**Agilent
E5071B**



1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

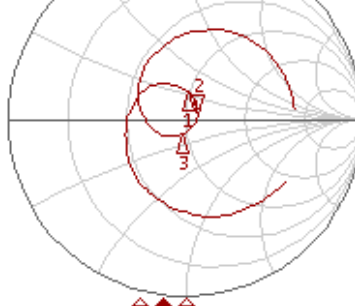
Tr1 S44 Log Mag 10.00dB/ Ref 0.000dB

1	2.4000000 GHz	-16.210 dB
>2	2.4500000 GHz	-22.604 dB
3	2.5000000 GHz	-21.170 dB



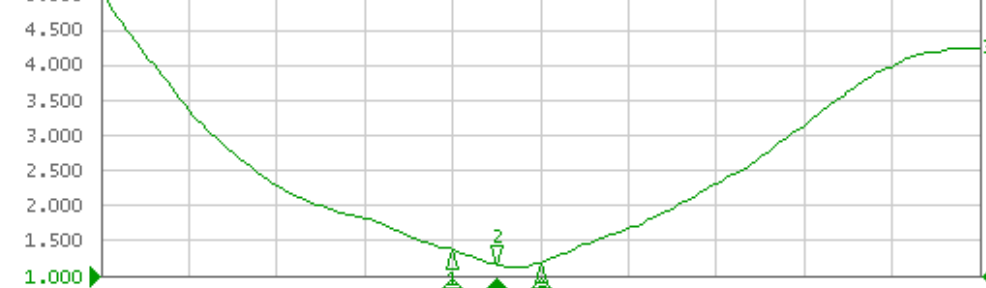
Tr2 S44 Smith (R+jX) Scale 1.000U

1	2.4000000 GHz	49.133 Ω	15.498 Ω	1.
>2	2.4500000 GHz	57.059 Ω	3.6299 Ω	2.
3	2.5000000 GHz	47.279 Ω	-8.0858 Ω	7.



Tr3 S44 SWR 500.0m/ Ref 1.000

1	2.4000000 GHz	1.3660
>2	2.4500000 GHz	1.1601
3	2.5000000 GHz	1.1915



1 Start 2 GHz

IFBW 70 kHz

Stop 3 GHz Off

Trigger

Hold

Single

Continuous

Hold
All Channels

Continuous
Disp Channels

Trigger Source
Internal

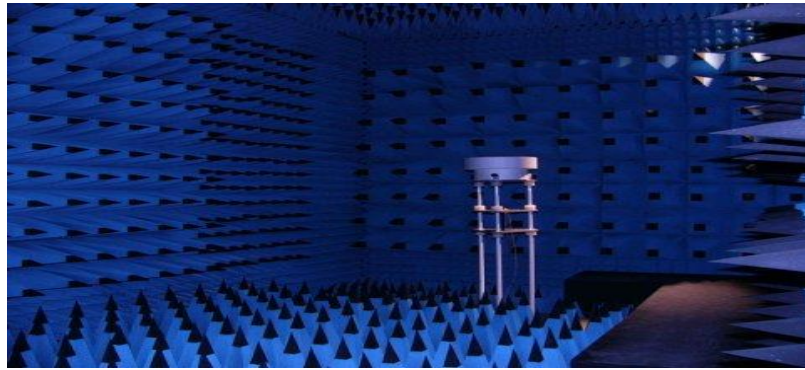
Trigger Event
On Sweep

Restart

Trigger

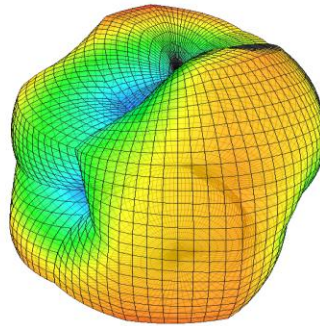
Return

Gain Test



Antenna Radiation Pattern VS Gain

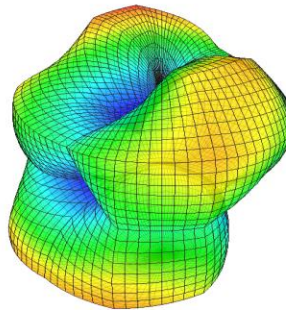
$\theta: 60^\circ$
 $\varphi: 45^\circ$



频率(mhz):2400
型号-WIFI2400
测试面:3D
测试人:
日期:2016/7/4
时间:16:17:05
PASSIVE_TRP =
-1.15797241909218 dBm
Frequency(MHz) = 2400



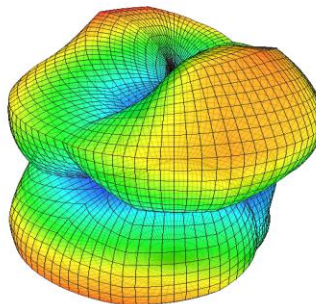
$\theta: 60^\circ$
 $\varphi: 45^\circ$



频率(mhz):2450
型号-WIFI2400
测试面:3D
测试人:
日期:2016/7/4
时间:16:17:05
PASSIVE_TRP =
-1.23526318917077 dBm
Frequency(MHz) = 2450



$\theta: 60^\circ$
 $\varphi: 45^\circ$



频率(mhz):2500
型号-WIFI2400
测试面:3D
测试人:
日期:2016/7/4
时间:16:17:05
PASSIVE_TRP =
-2.79698547515146 dBm
Frequency(MHz) = 2500

