



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

SPECIFICATION FOR APPROVAL

Date 2023/06/30
File No 23063001
Revision 1.0

CUSTOMER: Wuhan Guide Sensmart Tech Co., Ltd

CUSTOMER NO: ZC17A

PART NAME: WIFI Antenna L=110mm MHF

SUPPLIER NO: YJT01.220.019.301A

Date:

CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR

SUPPLIER SIGNATURE		
APPROVAL	CHECK	DESIGN
 ChenGuoqiang	XieLi	LiaoGuangxi

YJ-RD-F04-A



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add: Yuanfu Industrial Zone, 59 Muyu Road, Shatou Community, Changan Town, Dongguan City
Tel:0769-82586086 Fax:0769-82586086

RoHS
Compatible

CUSTOMER
PART NO

REV.

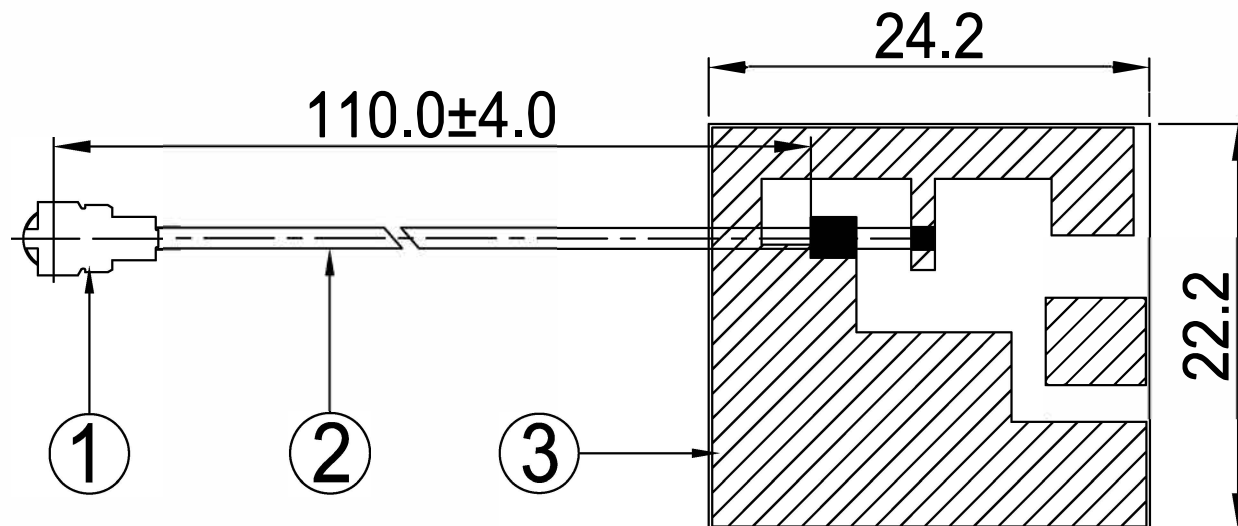
DESCRIPTION

DATE



initial issue

2023-04-18



Notes:

1.0 Electrical:

- 1.1 Frequency : 2400~2500MHz
- 1.2 Impedance : 50 Ohm Nominal
- 1.3 V.S.W.R : ≤ 2.0
- 1.4 Gain : 3.4dB
- 1.5 Radiation : Omni-directional
- 1.6 Polarization : Linear

2.0 Enviromental:

2.1 Storage Temperature Range : -40 To +85°C

2.2 Operating Temperature Range : -40 To +85°C

3.0 All material must meet ROHS Request.

3	FPC	24.2*22.2mm	FPC	FPC10510A.P01	1
2	Coaxial Cable	O.D.1.13 Black	O.D.1.13	COA100XXA.P01	1
1	Mini Connector	Au Plated	Cu	TER100XXA.P01	1
NO	PART NAME	DESCRIPTION	Material	Part Number	Q.TY



Dongguan YiJia Electronics Communication Technology Co.,Ltd.

Fax:0769-82586086 PART NAME: WIFI Antenna L=110mm MHF

PART NO.: YJT01.220.019.301A

DATE: 2023-04-18

APPROVED BY

CHECKED BY

DESIGNED BY



UNITS: mm

SCALE: 1/1

REVISION: A

Tolerance
X.X ±0.50
X.XX±0.15
X° ±3°



Antenna Specification

Electrical Properties

Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	2.0 Max
Gain	3.4 dBi
Radiation	Omni-directional
Polarization	Linear

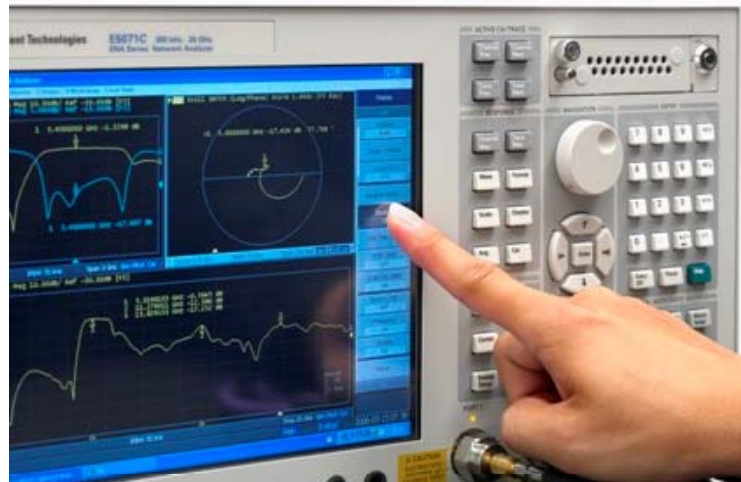
Physical Properties

Connector	First generation IPEX
Cable Type	O.D.1.13mm
Cable Length	110mm
Cable Color	Black
Operating Temp.	-40 ~ +85 °C
Storage Temp / Humidity	25±5°C / <70%

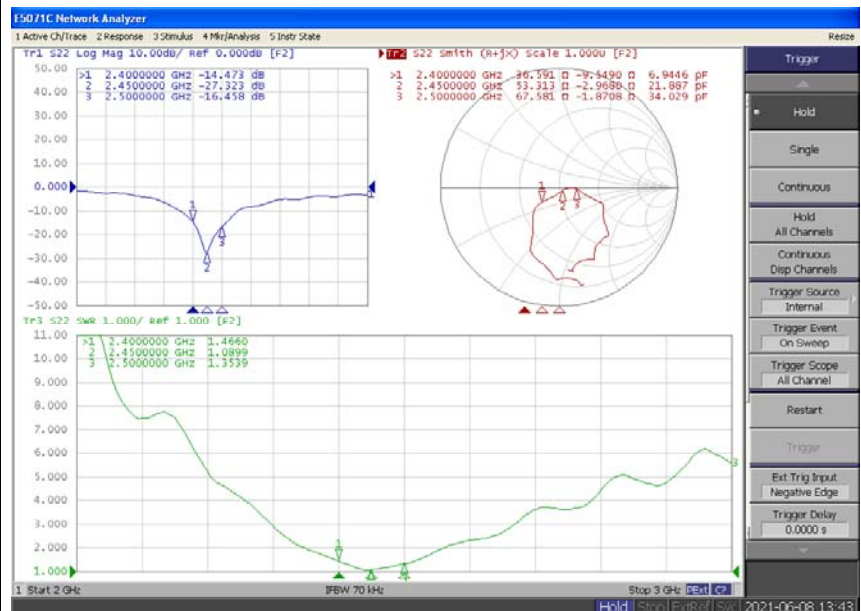


Antenna Performance Test

**Agilent
E5071B**



**S
Parameter
Test //
WiFi
Antenna**





Antenna Passive Test

Passive Test For WiFi Antenna			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	54.9	-2.6	2.3
2410	54.9	-2.6	2.4
2420	55.1	-2.6	2.6
2430	57.6	-2.4	2.7
2440	57.8	-2.4	2.7
2450	58.2	-2.4	3.4
2460	54.2	-2.7	3.2
2470	53.9	-2.7	3.0
2480	53.8	-2.7	2.8
2490	53.6	-2.7	2.7
2500	53.5	-2.7	2.6

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Radiation Pattern For WiFi Antenna(2450MHz)

