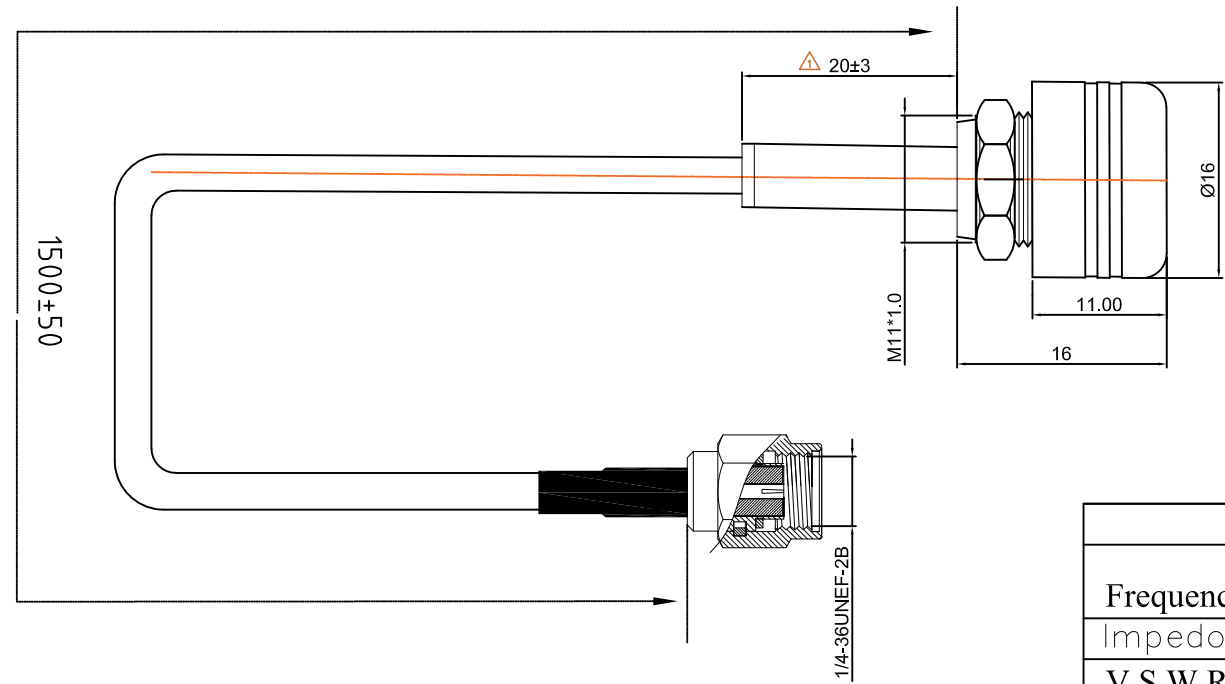


NO	Revision notes	Date	Designed by	Checked by
△	更新铜管尺寸	22.4.27	HZH	DP

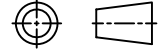


Electrical Properties	
Frequency Range	2.4~2.5GHz
Impedance	50 Ω
V.S.W.R.	≤2.0
Radiation	Omni
Gain	2.5DBi
Polarization	Vertical
Mechanical Properties	
Whip	POM
Standard Connector	SMA (M)
Weight	- g(est)
Operating Temp	-40°~ +80°

BOM

NO	Name	Material	Finish	QTY
1	Housing	POM	BLACK	1
2	SMA MALE	BRASS	GOLD	1
3	Antenna	Copper		1
4	RG174 CABLE	PVC	BLACK	1
5	Screw	Brass	NI	1
6	NUT	Brass	NI	1

THIRD ANGLE PROJECTION



Tolerance	
.X	±0.1
.XX	±0.05
.x	±1°

DRAWN BY	li	MATERIAL:		PART NO:	M16X.W1.0.333 (REV3.0)
CHECKED BY		FINISH:	BLACK	TITLE:	2.4GHZ Antenna
APPROVED BY	King	UNIT:	mm		
DATE:	22.4.27	SCALE:	1/1		

RUNSHUN
Dongguan Run Shun /www.rsantenna.com

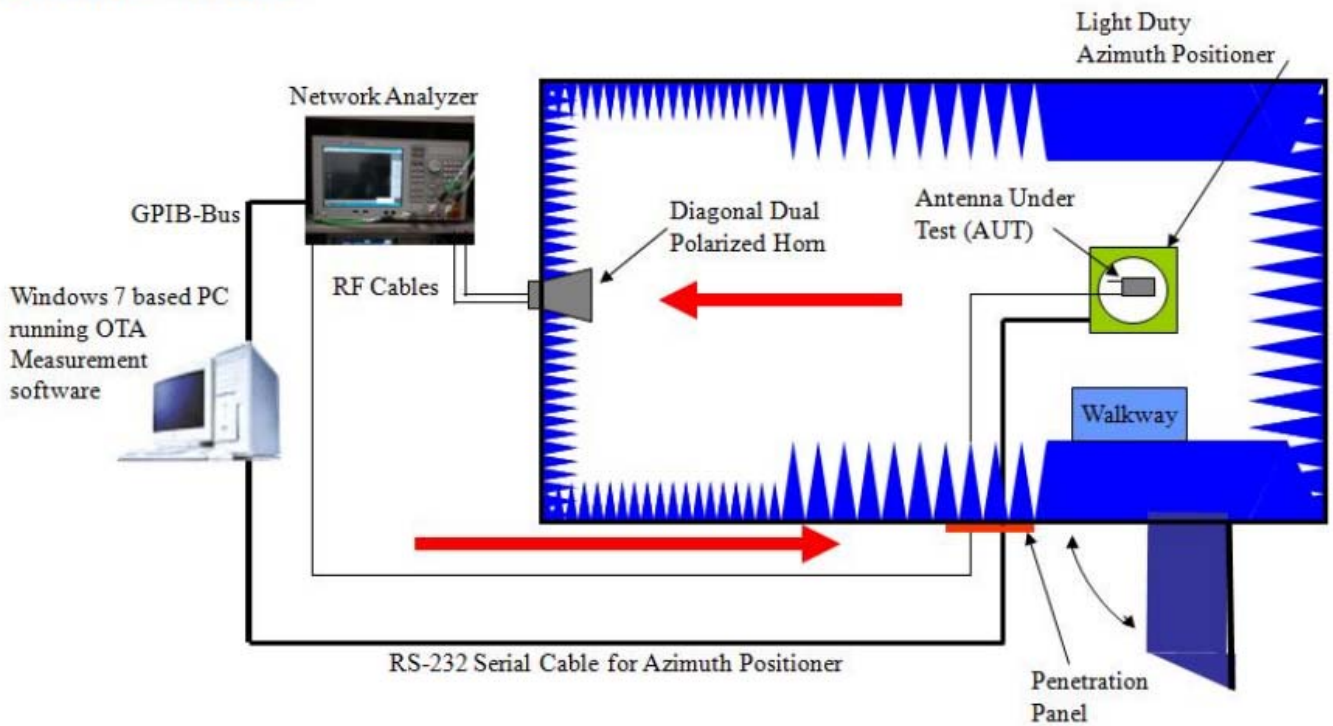
产 品 规 格 概 述
Overview of product specification

Electrical properties	
Frequency	2.4~2.5GHZ
Impedance	50 ohm Nominal
Return Loss	-10 dBi
VSWR Port 1&2	2.0:1 MAX
Gain	2.4GHZ 2.11dBi 2.45GHZ 2.34dBi 2.5GHZ 2.19dBi
Connector	RP-SMA Male
Cable length	RG174 BLACK 1.5 Meter
Coax cable loss	1.3dB/M~2.4GHz 1.45dB/M~2.45GHz 1.56dB/M~2.5GHz
Mechanical Properties	
Radome	UV Resistant POM
Operating Temp	-40°C to +80°C
Radome Color	Black

产品照片
Product Photos



Passive mode

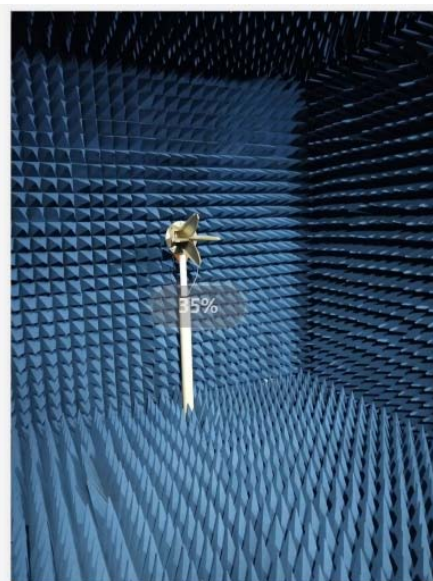


TEST INSTRUMENT :

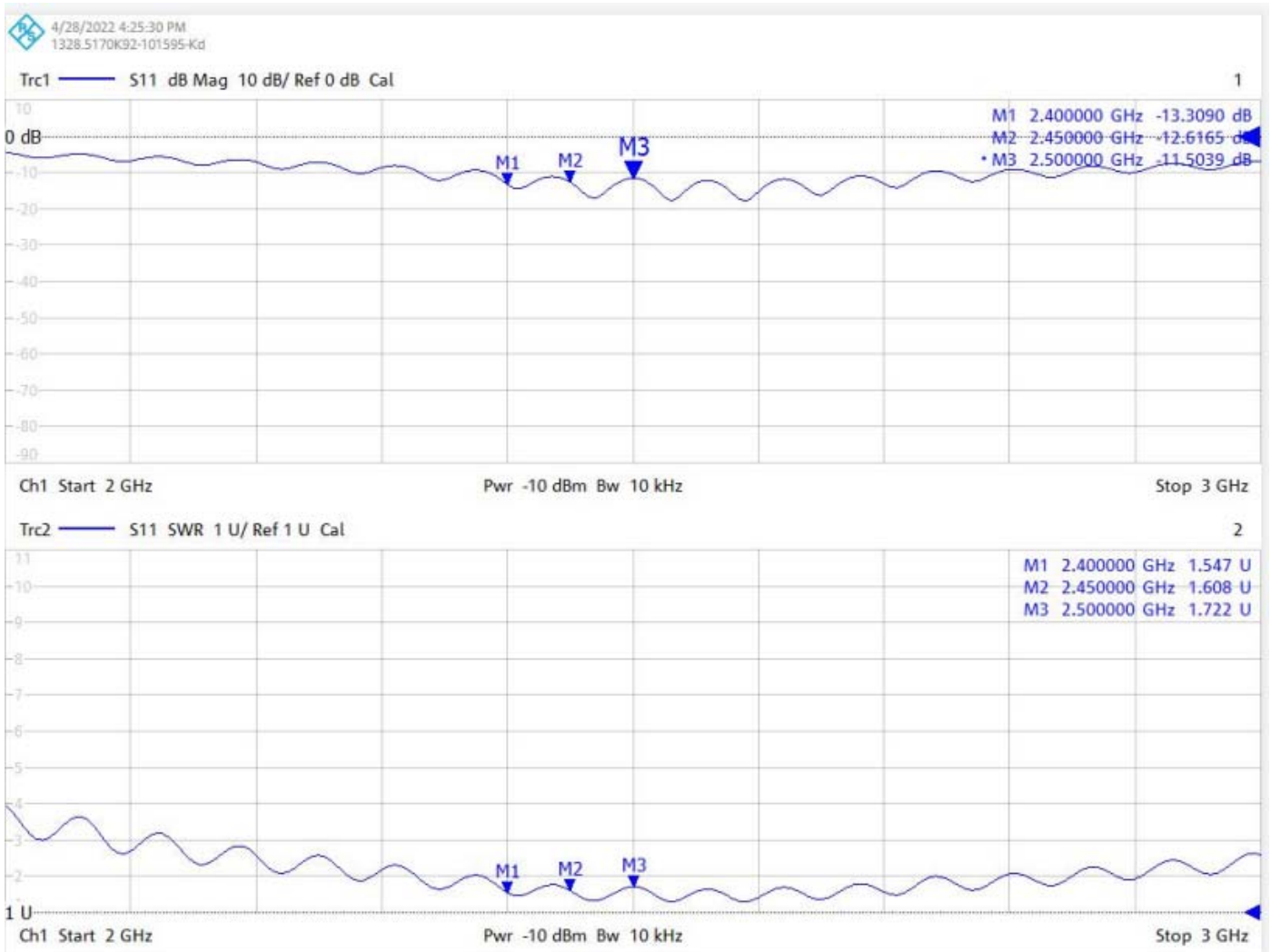
1. AGILENT E5071C NETWORK ANALYZER
2. 3D OTA Chamber(WanShih)

Anechoic Chamber External Dimensions

(L x W x H): 8m x 4m x 4m



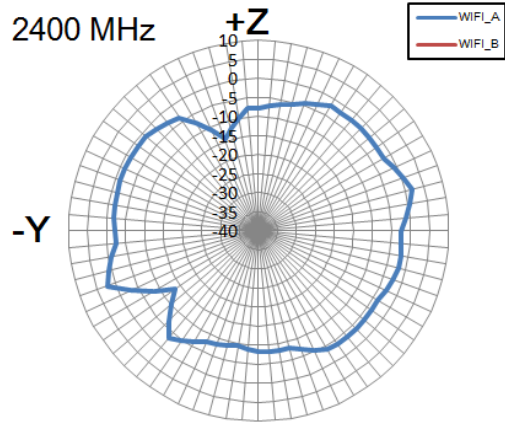
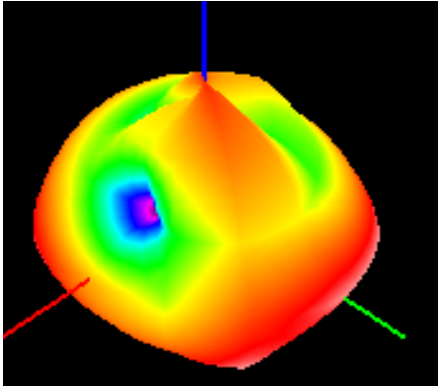
VSWR



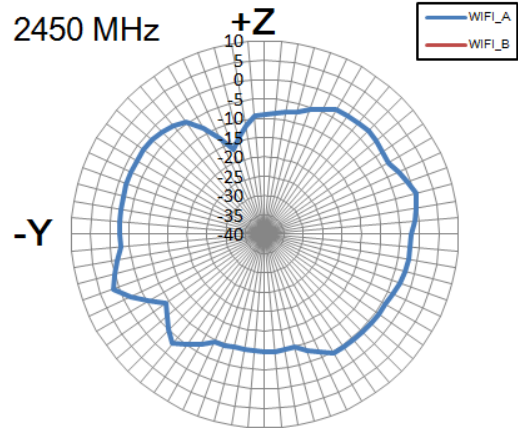
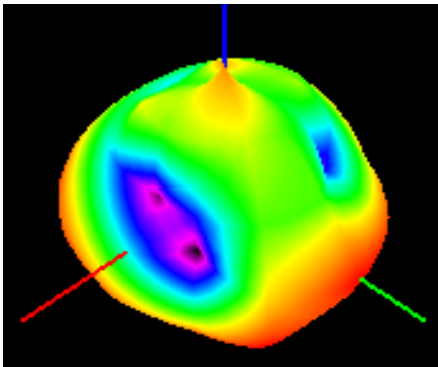
Frequency(MHz)	2.4GHz	2.45GHz	2.5GHz
S11(-10DBi)	13.3	12.616	11.5
VSWR(≤ 3.0)	1.547	1.608	1.722

Radiation Patterns

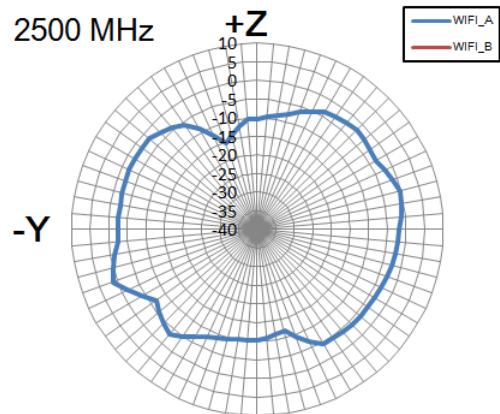
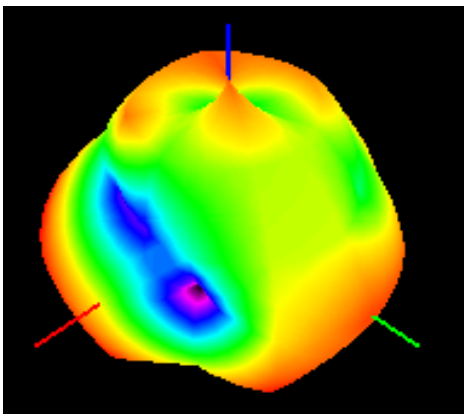
2.4GHz



2.45GHz



2.5GHz



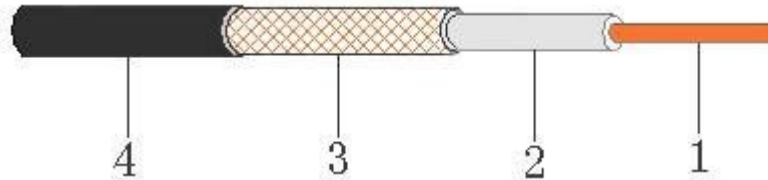
Frequency(MHz)	2.4GHz	2.45GHz	2.5GHz
Peak gain(without cable loss)	2.11	2.34	2.19
Efficiency(without cable loss)	70%	66.4%	61.3%

Dongguan Runshun Technology CO.,Ltd

产品技术数据 Technical data of product

电缆名称 Name of cable	实芯聚乙烯绝缘同轴电缆 Solid polyethylene insulated coaxial cables		
电缆型号 Type of cable	RG174	执行标准 Standar	参照 MIL-C-17

一、产品结构图 Structure diagram of product



二、产品规格尺寸 Size of product

序号 No.	项目 Item	结构 Structure	材质 Material	颜色 Color
1	内导体 Inner conductor	7/0.16mm	裸铜丝 Bare copper	黄色 Yellow
2	绝缘层 Insulation	1.52±0.10mm	聚乙烯 PE	白色 White
3	编织 Wire braid	80*0.10mm	裸铜丝 Bare copper	黄色 Yellow
4	外护层 Jacket	2.80±0.10mm	耐寒聚氯乙烯 PVC	黑色 Black
5	标志 Making	RG174 RoHS		

三、产品物理电气性能 Electrical physical and properties of product

项目 Item	单位 Unit	典型值 Value	
电容 Capacitance	pF/m	100±5	
阻抗 Impedance	Ω	50±2	
速率 Velocity ratio	%	66	
弯曲半径 Bent radius	mm	14	
最大工作电压 Max voltage	VMS	1500	
最大工作频率 Max Frequency	MHz	3000	
护套使用温度范围 Temperature scope	℃	-40 ~ +105	
20℃时衰减（允许误差15%） Attenuation constant at 20℃（Permissible error 15%）	200MHz	dB/100 m	39
	400MHz	dB/100 m	58
	900MHz	dB/100 m	90
	1500MHz	dB/100 m	117
	1800MHz	dB/100 m	128

2000MHz	dB/100 m	139
2500MHz	dB/100 m	156