

承 认 书

SPECIFICATION FOR APPROVAL

客 户 名 称

CUSTOMER NAME: M5Stack Technology Co., Ltd

产 品 名 称

PRODUCT NAME: 2.4G appearance, 2dBi black antenna

客 户 料 号

CUSTOMER P/N:

芭 乐 料 号

B L

P/N:

2.521.020C

REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	杜强	
AUDITOR BY:	张生	
APPROVED BY:	刘波	
DATE:	2021-06-25	



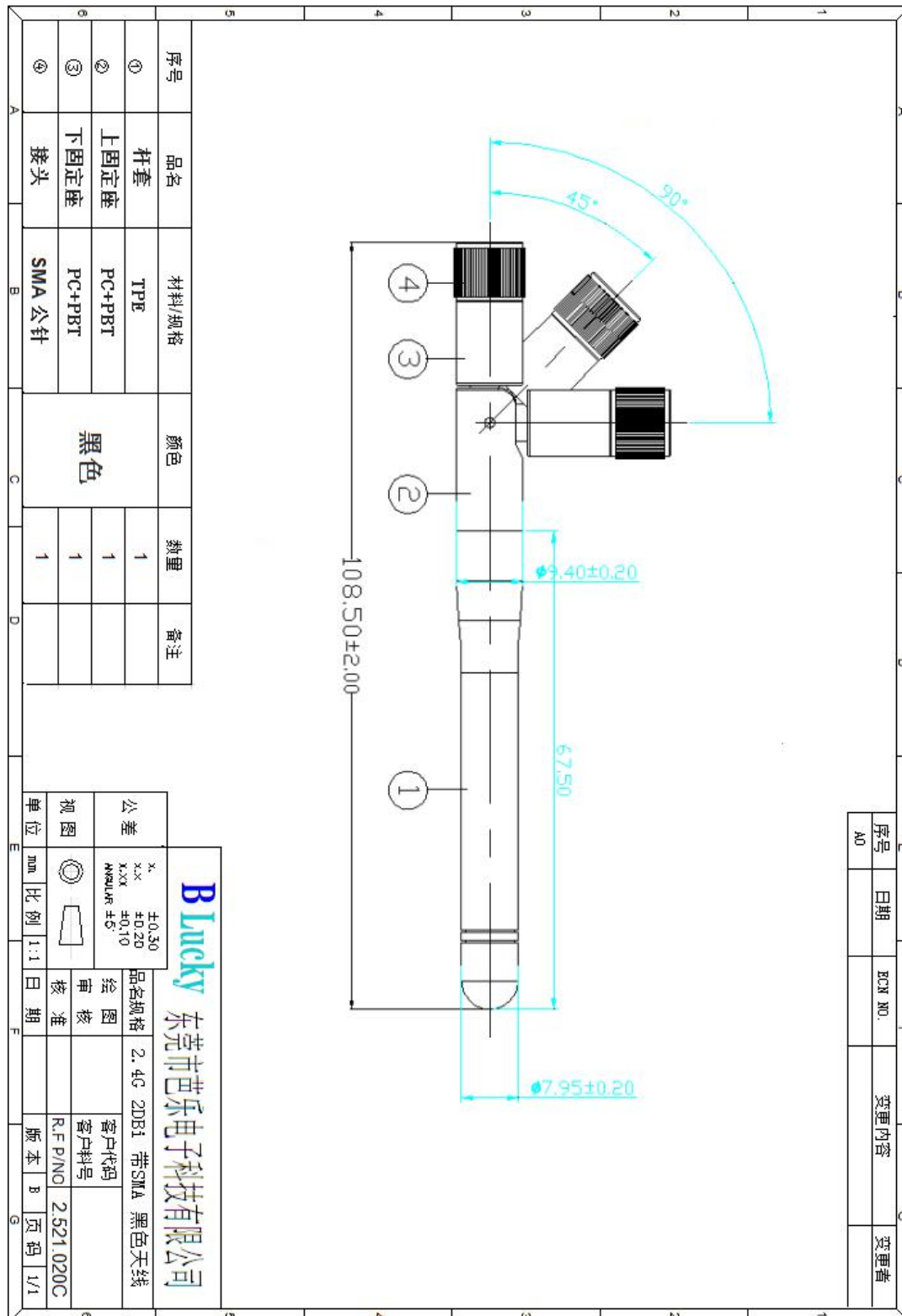
东莞市芭乐电子科技有限公司
Dongguan bale Electronic Technology Co., Ltd.
东莞市长安镇乌沙社区兴二路15号巨峰德兴科技园六楼
6th Floor, Jufeng Dexing Science and Technology Park, No. 15, Xing'er
Road, Wusha Community, Chang'an Town, Dongguan City

I. Specification Sheet:

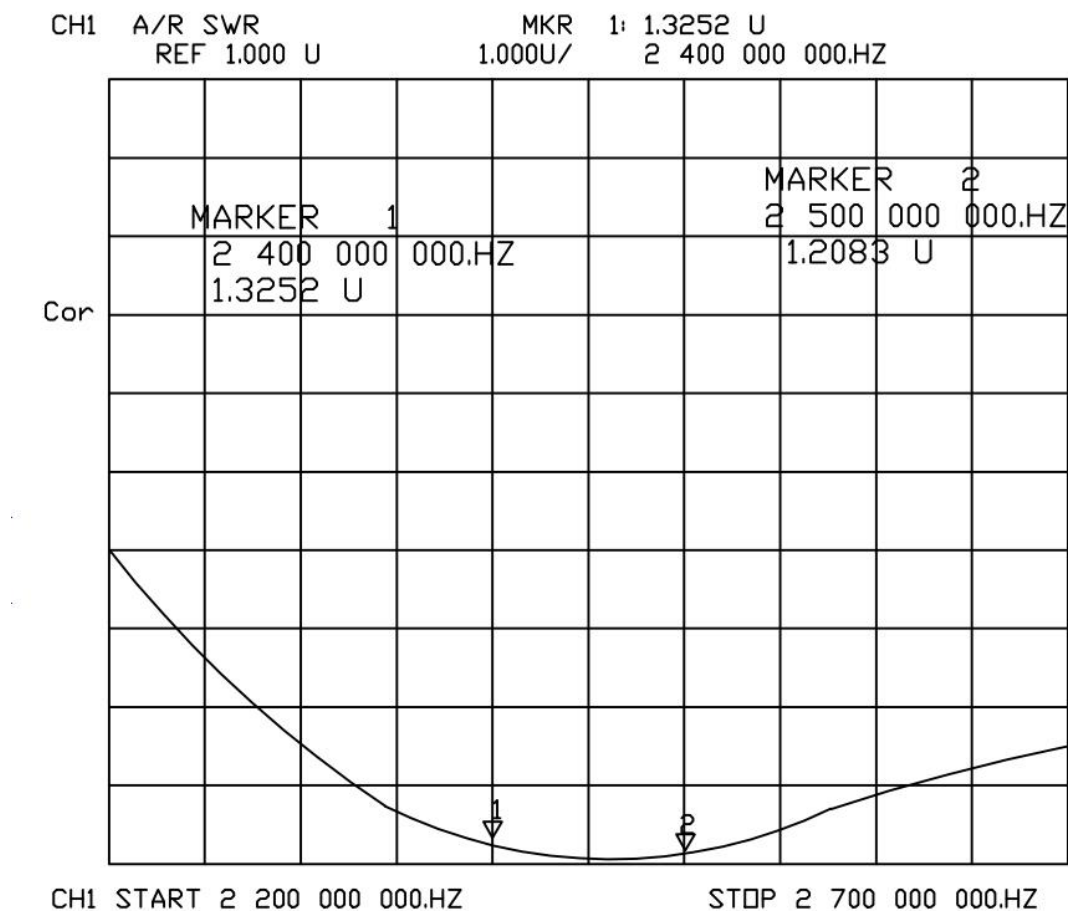
1、产品技术指标 PRODUCT TECHNICAL SPECIFICATION

电性能指标 Main Electrical Specifications	
频率范围 Frequency Range (MHz)	2000~3000
频宽 Bandwidth (MHz)	2400~2500
输入阻抗 Input Impedence (Ω)	50 $\pm$ 5
电压驻波比 V.S.W.R	≤ 2.0
增益 Gain (dBi)	2.0 $\pm$ 0.5
极化形式 Polarization Type	垂直&水平 Vertical & Horizontal
最大功率 Max Power Capacity (w)	10
机械指标 Mechanical Specifications	
材料 Material	TPE+PBT+PC
线材 Wire Type	RG178 brown
辐射方向 Radiation Direction	全向 Omnidirectional
工作温度 Working Temp($^{\circ}$ C)	-40~85 $^{\circ}$ C
储存温度 Storage Temperature($^{\circ}$ C)	-40~85 $^{\circ}$ C
固定方式 Mounting	SMA Connect

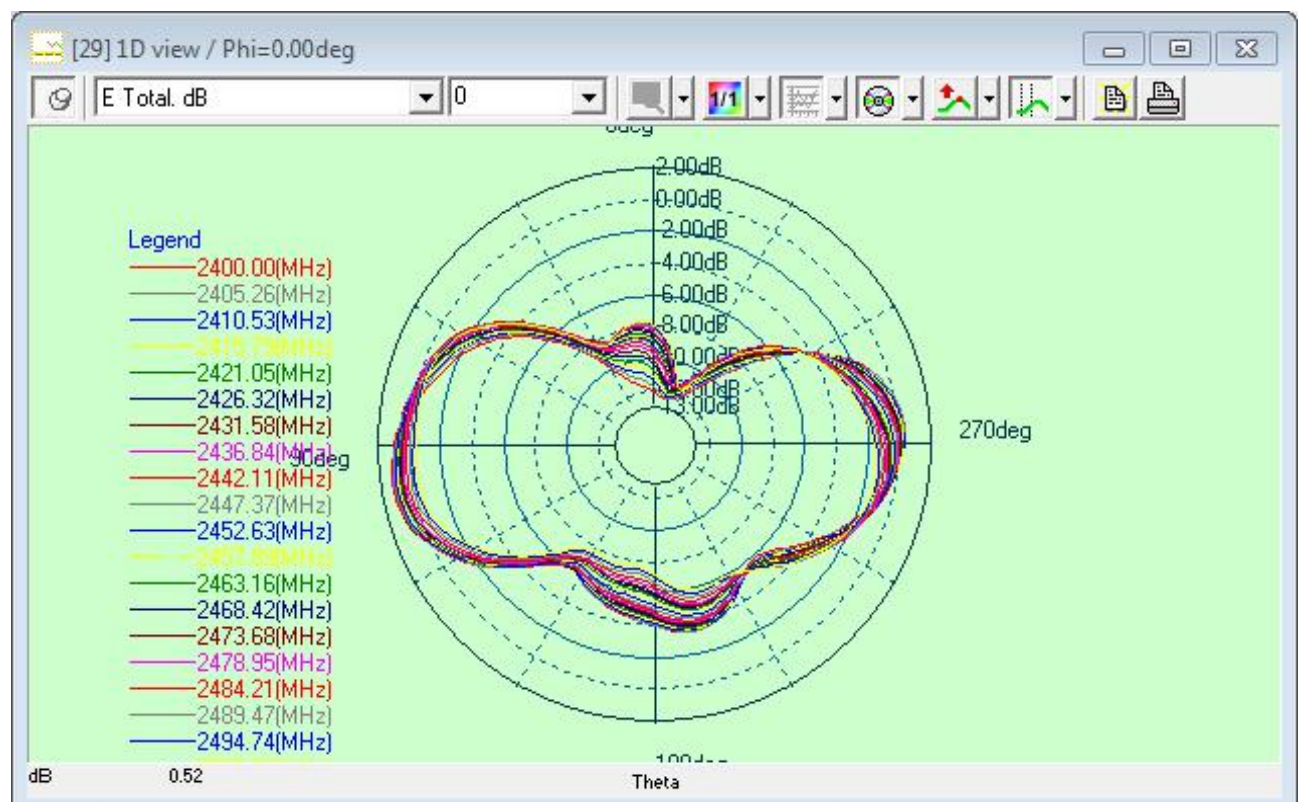
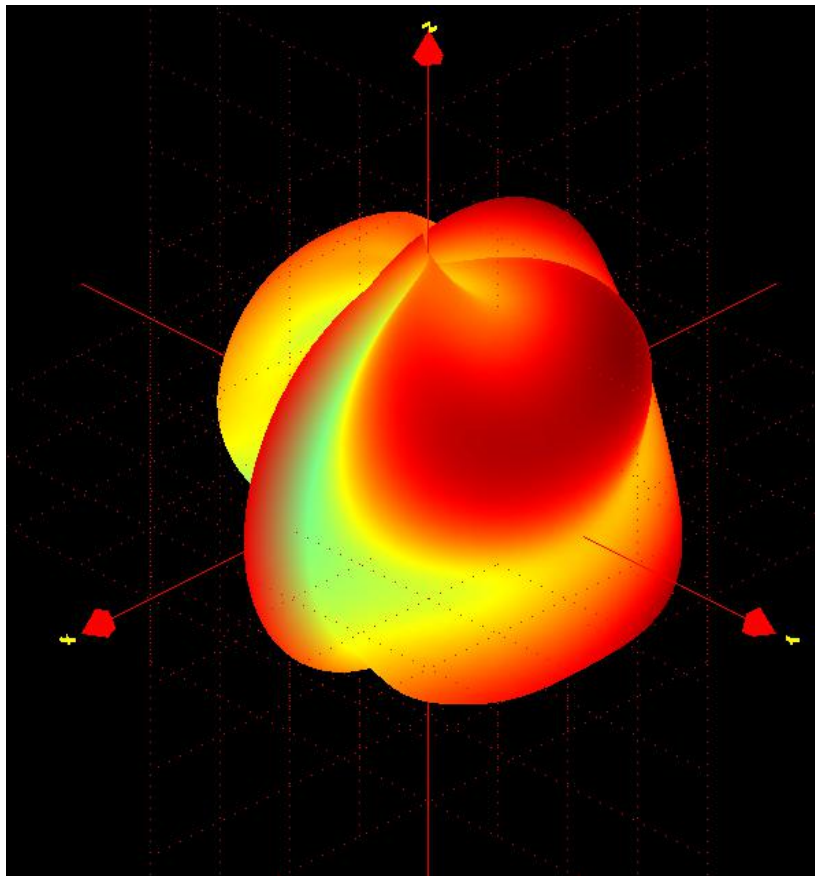
II. Finished Product Drawings:



3.1:Return loss



3.2:Raditation Pattern （暗室测试）





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Frequency	Efficiency	Gain
2400000000	71%	2.656036479
2405263157	70%	2.617387282
2410526315	69%	2.51614204
2415789473	69%	2.440654792
2421052631	68%	2.375569954
2426315789	69%	2.383841504
2431578947	69%	2.368850319
2436842105	70%	2.347873254
2442105263	69%	2.287391249
2447368421	68%	2.174221727
2452631578	67%	2.12466706
2457894736	66%	2.071566832
2463157894	67%	2.084467304
2468421052	67%	2.025378788
2473684210	67%	1.970669259
2478947368	66%	1.811833359
2484210526	65%	1.696582453
2489473684	65%	1.623093911
2494736842	65%	1.628821791
2500000000	66%	1.672374049