

Antenna Testing report

DATE: 2025. 03. 27

REV.: V01

CUSTOMER: Shanghai Xiangcheng Communication Technology Co. , Ltd.

CUSTOMER P/N:

PART NAME: S0724_Three in one antenna

SUPPLIER P/N:

CUSTOMER APPROVED BY		
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVED BY

SUPPLIER SIGNATURE		
ENGINEER R&D DEPT	ENGINEER R&D DEPT	APPROVAL

Supplier name:	Shenzhen Be-comfortable Technology
Supplier address:	No.1606,Build C6,HengFeng industrial city,xixiang street,baoan district,Shenzhen

CONTENTS

Item	Description	Page
1.	Antenna Specification Table.....	1
2.	Test Report	8~10

Antenna Design for S0724_Three in one antenna V1.0

Document Number	DZZ-20250327
1st Released Date	27/03/2025
Author	Bo Bian
Review By	Huiping Feng

Revised History

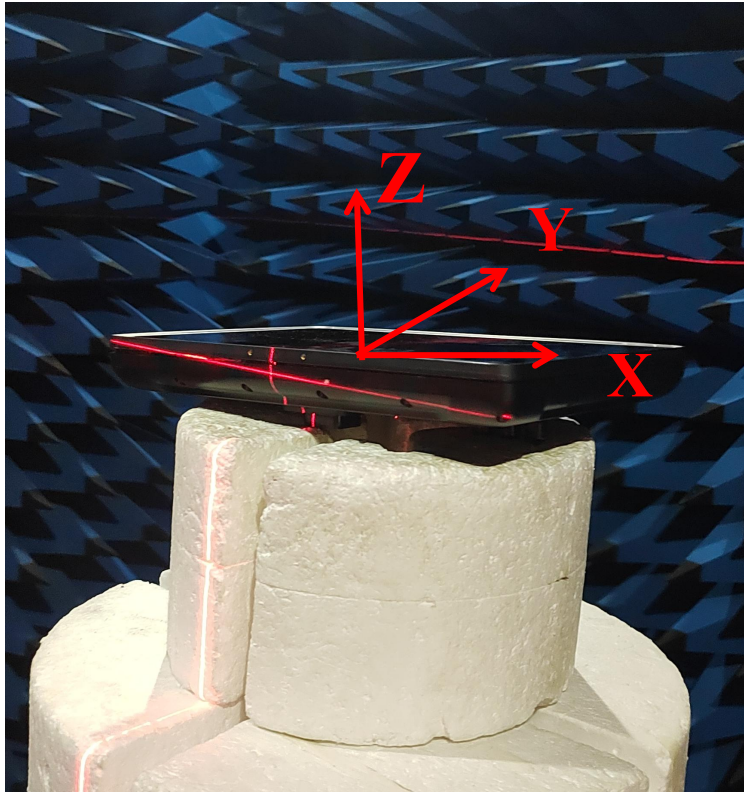
[illegible]

Specification

Rough description	三合一 ant
Item	Initial Specification
Impedance	50Ω
Frequency range	1575.42MHz&2400~2500MHz&5100~5900MHz
Antenna Type	Pifa
Peak Gain	1575.42MHz 2dBi; 2400~2500MHz 3dbi 5100~5900MHz 3dbi
Radiation	Omni
Polarization	Linear
Connector Type	NONE
Cable Length	NONE

1. Test enviroment

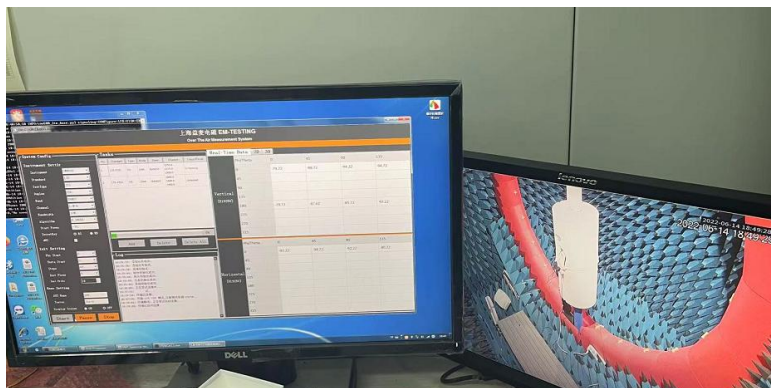
Satimo 24探头



CMW500



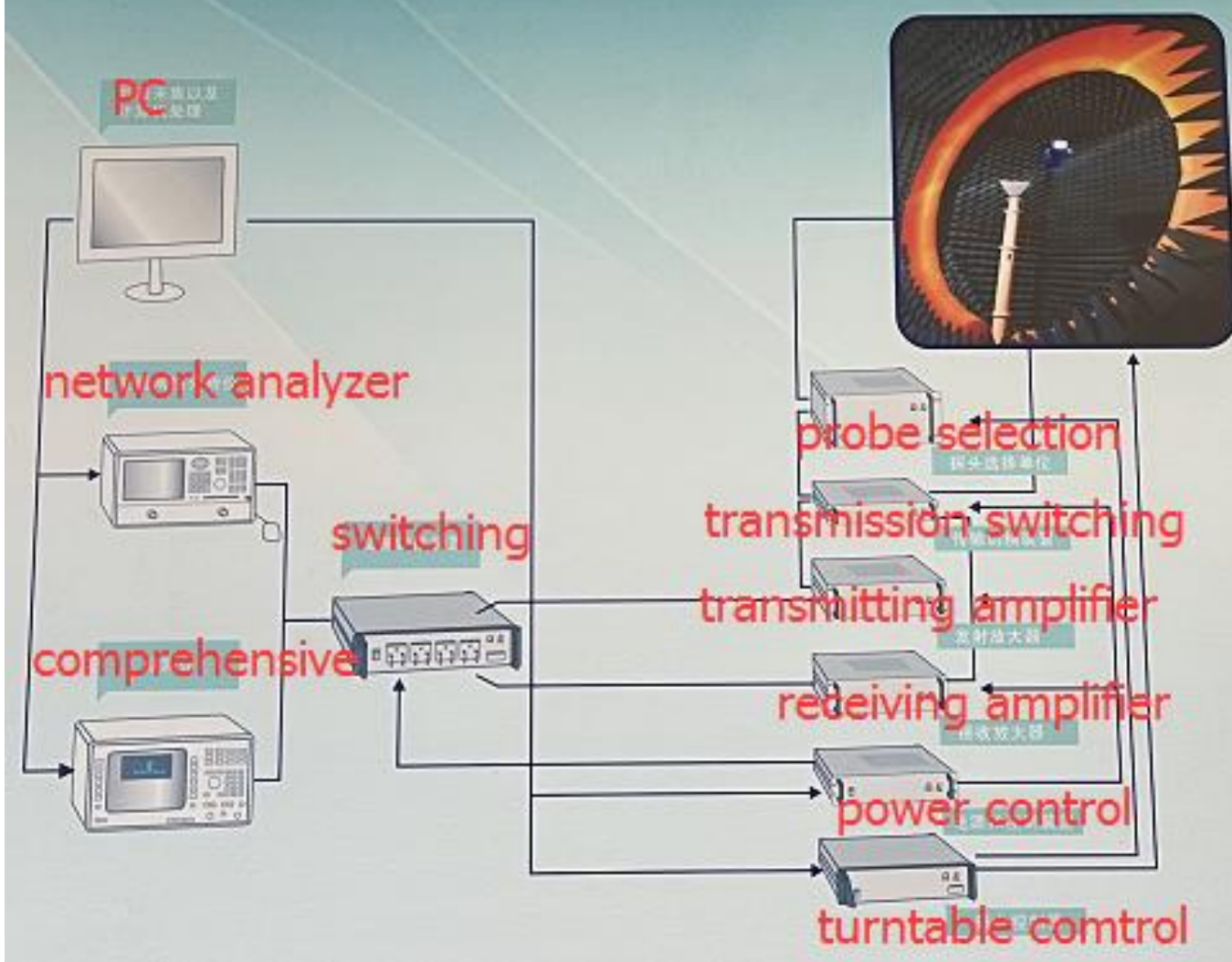
PC



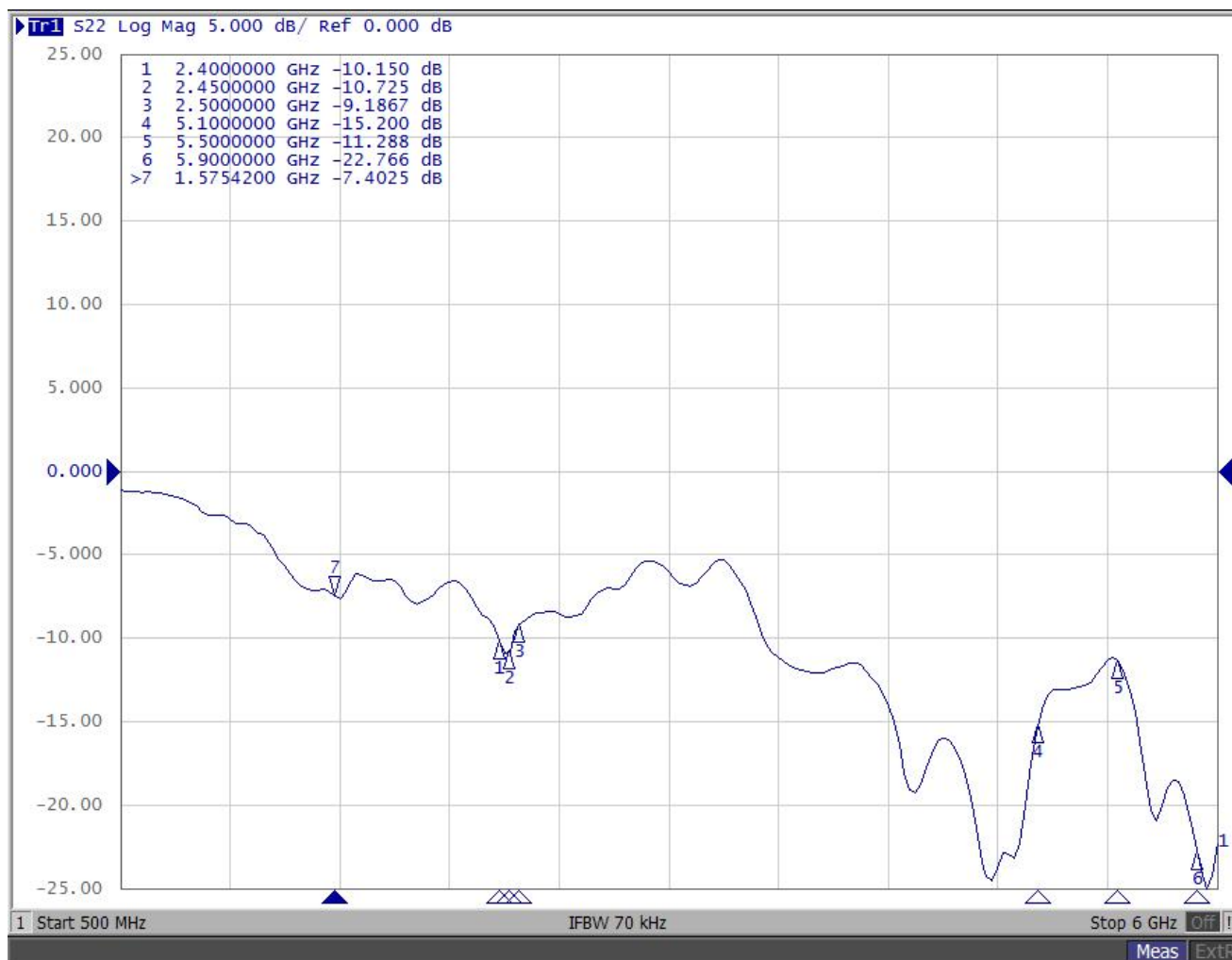
益麦电磁



24探头球面近场天线测量系统



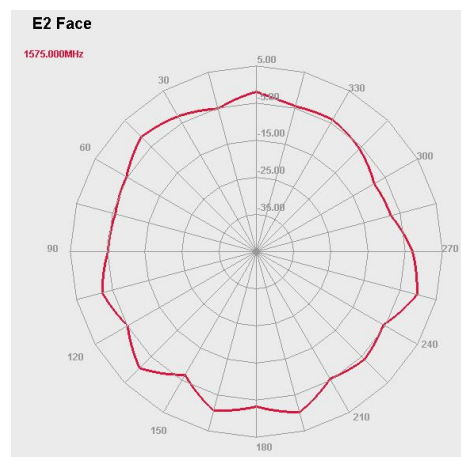
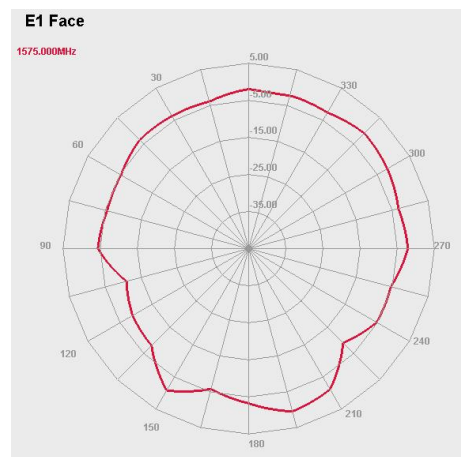
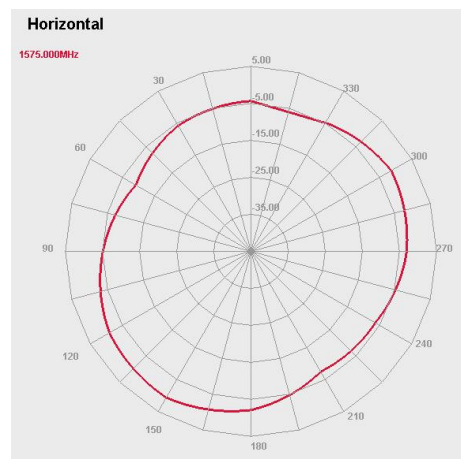
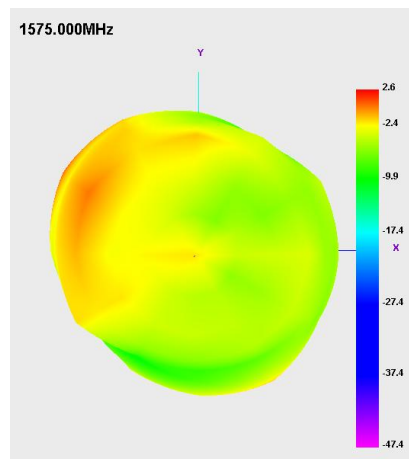
Passive Test Result(S parameters)

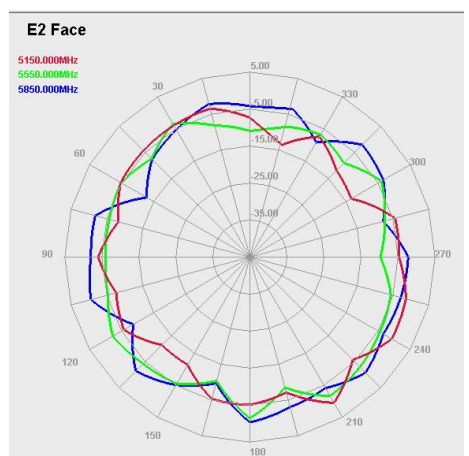
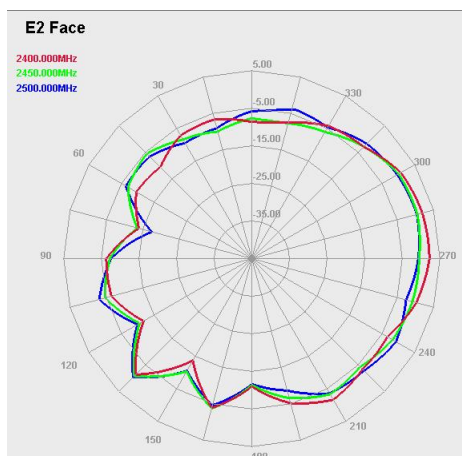
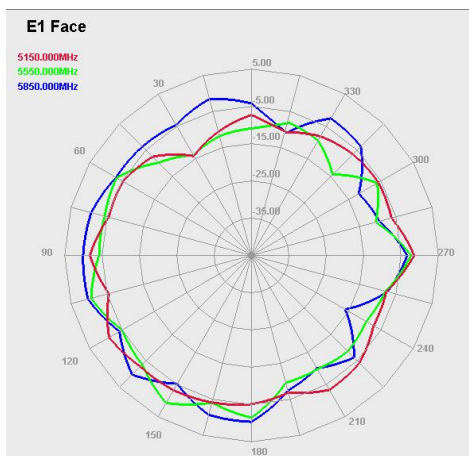
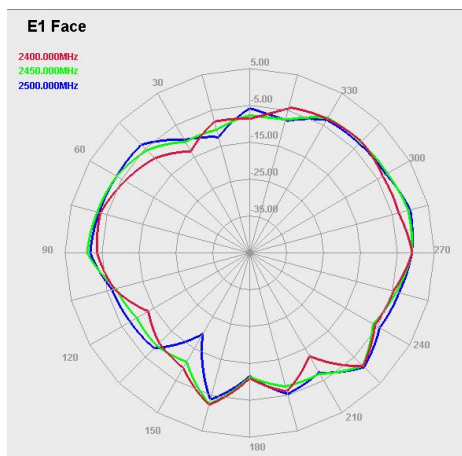
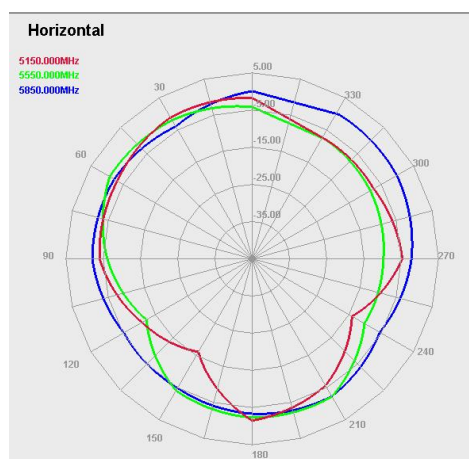
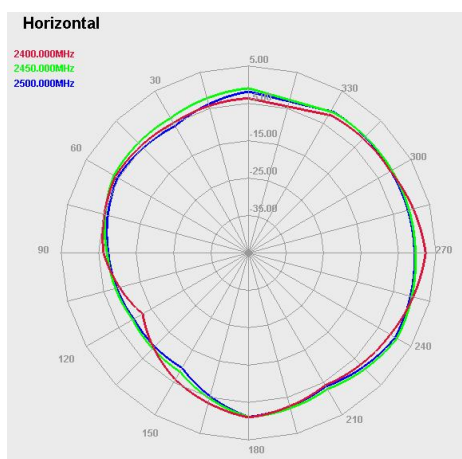
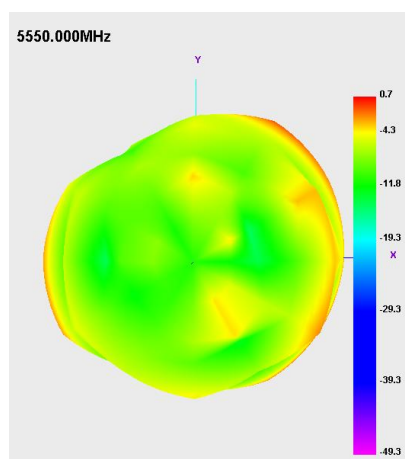
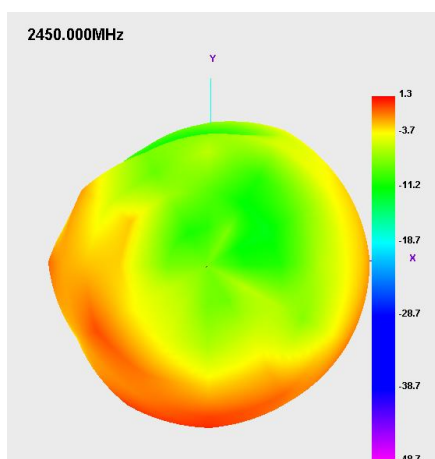


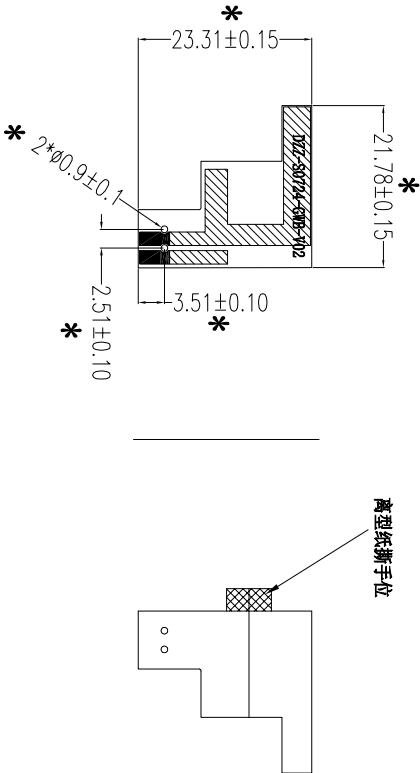
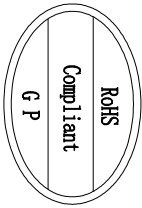
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1560	48.18	-3.17	1.89
1565	44.77	-3.49	1.5
1570	43.87	-3.58	1.21
1575	46.42	-3.33	1.4
1580	48.73	-3.12	1.71
1585	50.06	-3.01	1.72
1590	48.88	-3.11	1.75
1595	44.99	-3.47	1.24
1600	43.25	-3.64	0.91

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	42.25	-3.74	1.88
2410	41.3	-3.84	1.92
2420	42.94	-3.67	1.8
2430	40.39	-3.94	1.61
2440	41.26	-3.84	1.45
2450	43.32	-3.63	1.54
2460	43.06	-3.66	1.57
2470	43.16	-3.65	1.57
2480	44.92	-3.48	2.29
2490	45.19	-3.45	2.59
2500	43.93	-3.57	2.81

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	41.5	-3.82	1.88
5250	39.89	-3.99	1.37
5350	42.07	-3.76	1.35
5450	39.03	-4.09	2.33
5550	41.56	-3.81	2.01
5650	42.13	-3.75	1.54
5750	43.26	-3.64	1.74
5850	43.79	-3.59	2.45







备注:

- 1. FPC材料: 0.5 0z电解铜, 1MIL材质. 单面板
- 2. 镀点处理: 镀金
- 3. 表面处理: 黑色
- 4. 背胶: 3M9471 包装方式: 整版出货
- 5. 丝印字体: 白色字符
- 6. 未标公差尺寸, 模具冲出尺寸公差为±0.15, 铜箔线条尺寸公差为±0.05.

- 7. 涂 为铜箔线路, 涂 为穿孔, 涂 的为镀点区域, 涂 的为基材区域
- 8. 安规要求: ROHS _____
- 9. 品质要求按照南斗星《IQC进料检验规范》执行

1	2	3	4	5	6	7	8
A							
B							
C							
D							
Rev				Date		Remark	
1				4			
A				New drawing			
Description							
1							

深圳得自在科技有限公司 SHEN ZHEN Be Comfortable, LTD							
		Third Angle		Project		S0724	
0~10 ±0.13				Part Name		三合一	
10~18 ±0.15				Part No.		F01-7214-R0A	
18~30 ±0.18				Material		N/A	
30~40 ±0.20				DWG No.			
40~ ±0.25		Angle		Approved by		MD	
Location		N/A		Unit mm		Scale 1:1	
5		6		7		Rev	
						A	

产品包装规范

日期: 2024.12.23

page: 1 of 1

成品名称 : S0724 GMB天线	版本: A
客户: 样承	

1) 成品天线

FPC天线

二: 整版包装, 一袋装1000pcs。

....

四: 10000PCS装一箱, 以实际包装为准

五: 封箱, 外箱贴我司生产标签和
ROHS标签。

批准:

郑建秋

确认: 冯惠平

拟制: 田进

Autodesk