

三合一天线规格书

3-in-1 antenna specification

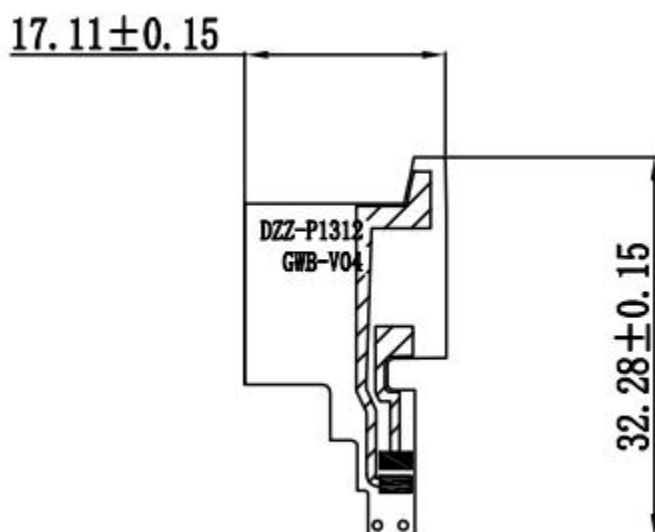
基本信息

General information

制造商 Manufacturer	Be-comfortable
天线型号 Model Name	P1312- 3-in-1 ant
日期 Date	2024-11-11
版本 Version	1.0
.....	

天线外观

Antenna Appearance



技术规格

Technical Specifications

频率范围 Frequency Range	1575.42MHZ+2400-2500MHZ~5150-5850MHZ
天线类型 Antenna Type	Monopole
尺寸 Dimensions	17.11mm*32.28mm*0.12mm
阻抗 Impedance	50 ohm
最大增益 Maximum Gain	3dbi
驻波比 VSWR	≤ 3
.....	

Efficiency and gain

Frequency (MHz)	Efficiency (%)	Gain(dBi)
1560	53.53	2.54
1565	52.16	2.46
1570	51.18	2.27
1575	48.25	1.88
1580	48.41	1.94
1585	48.97	2.03
1590	50.92	2.42
1595	50.49	2.19
1600	51.76	2.45

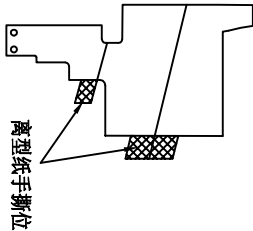
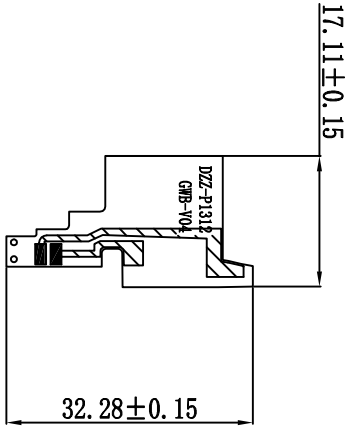
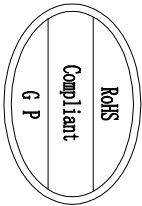
Frequency (MHz)	Efficiency (%)	Gain(dB)	Frequency (MHz)	Efficiency (%)	Gain(dB)
2400	47.8	-0.48	5000	39.5	-0.35
2410	48.8	-0.05	5100	40.1	1.9
2420	49.6	-0.21	5200	40.2	0.7
2430	49.4	0.05	5300	41.0	1.2
2440	50.7	0.4	5400	45.5	2.01
2450	51.2	0.77	5500	47.6	1.27
2460	51.6	0.86	5600	48.1	1.14
2470	50.9	0.85	5700	48.6	1.74
2480	50.9	1.14	5800	48.6	2.52
2490	49.4	1.17	5900	48.3	2.76
2500	49.4	1.34	6000	50.3	2.7

有源数据

OTA (TRP TIS)

WIFI OTA test				
frequency	Channel	判断标准		
			TRP	TIS
WIFI 11a (54M)	36	TRP:≥10dBm TIS:≤-70dBm	10.58	-73.17
	157		11.14	-71.12
	165		10.79	-71.05
WIFI 11b (11M)	1	TRP:≥12dBm TIS:≤-83dBm	14.46	-85.10
	7		14.27	-84.98
	13		14.09	-83.62
WIFI 11g	1	TRP:≥10dBm TIS:≤-70dBm	13.28	-72.21
	7		13.14	-71.92
	13		12.91	-71.25
WIFI 11n	1	TRP:≥8dBm TIS:≤-68dBm	13.54	-69.88
	7		13.37	-69.53
	13		13.22	-68.75

GPS OTA test (主要看场测搜星效果)		
测试项	样品1	判断标准 Judgment criteria
CNO	-149.6	≤-145



备注:

1. FPC材料: 0.5oz电解铜, 0.5MLI PI 材质
2. 镀点处理: 镀金
3. 表面处理: 黑色油墨.
4. 背胶: 3M467 包装方式: 整版出货
5. 丝印字体: 白色
6. 未标公差尺寸, 模具冲出尺寸公差为±0.1, 铜箔线条尺寸公差为±0.05, 标重点的孔公差为±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六项
9. 品质要求按照得自在《IQC进料检验规范》执行

Rev				Date		Remark		Location		Customer		Unit		Scale		Rev		A	
1																			
New drawing																			
Description																			

Rev				Date		Remark		Location		Customer		Unit		Scale		Rev		A	
1																			
New drawing																			
Description																			

深圳得自在科技有限公司
SHEN ZHEN Be Comfortable CO., LTD

Project P1312
Part Name 三合一
Part No. F01-7167-ROA
Material FPC
Customer
Part NO

Designed by
Date 2024.11.8
Checked by MD 田进
RF 沈桂香

Third Angle
0~10 ±0.05
10~18 ±0.10
18~30 ±0.12
30~40 ±0.15
40~ ±0.20

0.02
0.03
0.02
0.04
±0.5°

Part No.
Material
Customer
Part NO

Project
Part Name
Part No.
Material
Customer
Part NO

Designed by
Date
Checked by
Approved by