

Antenna Design for P1012分集天线 V1.0

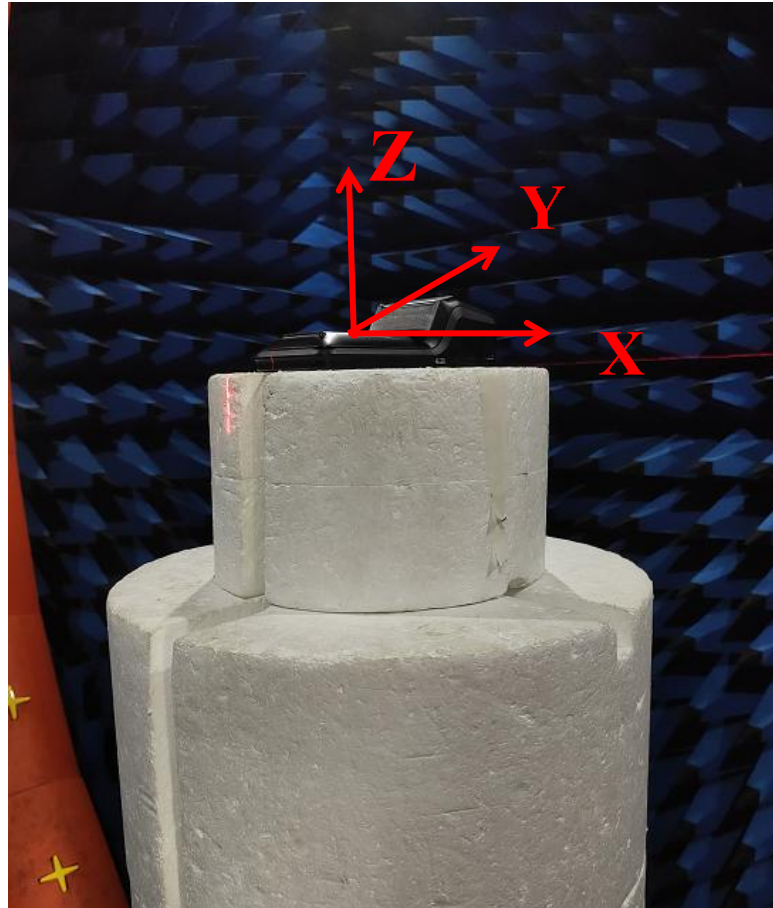
Document Number	DZZ-20220829
1st Released Date	29/08/2022
Author	Bo Bian
Review By	Huiping Feng

Specification

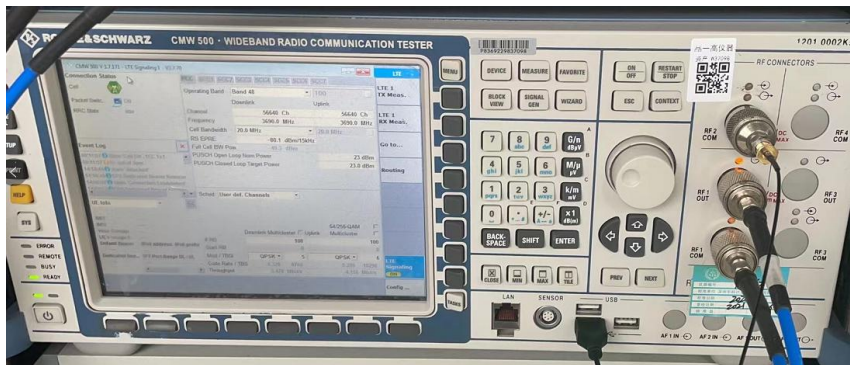
Rough description	DIV ant
Item	Initial Specification
Impedance	50Ω
Frequency range	700~960MHz&1710~2690MHz
Antenna Type	pifa
Peak Gain	700~960MHz 0dBi; 1710~2690MHz 3dbi
Radiation	Omni
Polarization	Linear
Connector Type	NONE
Cable Length	NONE

1. Test enviroment

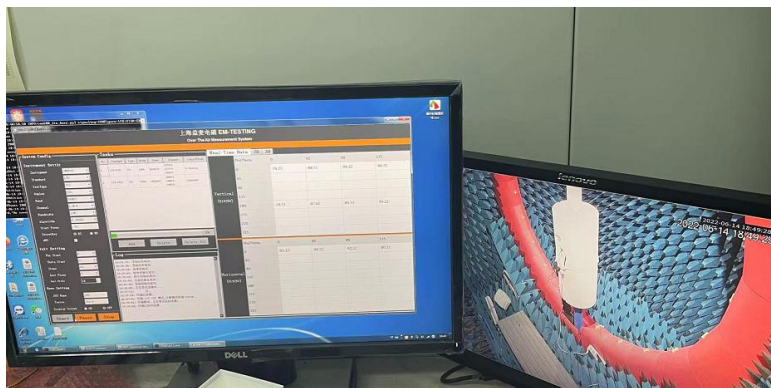
Satimo 24探头



CMW500



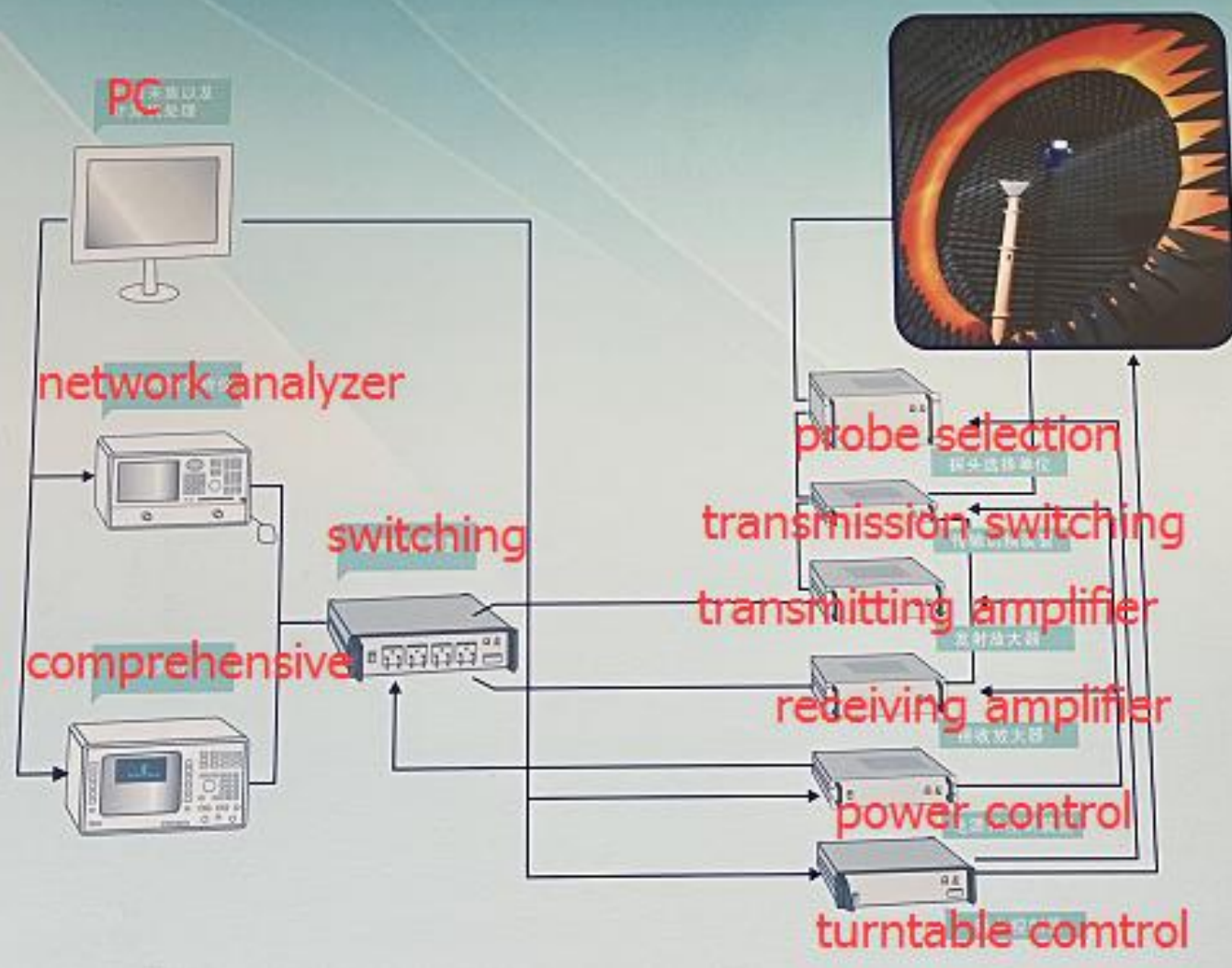
PC



益麦电磁



24探头球面近场天线测量系统



OTA A配置

LTE	Channels (Power / Sensitivity)	Test BW	TRP (dBm)	TIS (dBm)
Band1	L	10MHz	17.68	
	M	10MHz	17.16	
	H	10MHz	17.74	-90.39
Band3	L	10MHz	18.53	
	M	10MHz	18.79	
	H	10MHz	18.8	-91.85
Band5	L	10MHz	17.22	
	M	10MHz	16.67	
	H	10MHz	17.15	-91.25
Band7	L	10MHz	16.89	
	M	10MHz	16.97	
	H	10MHz	17.02	-90.81
Band8	L	10MHz	16.98	
	M	10MHz	16.56	
	H	10MHz	15.93	-89.06
Band20	L	10MHz	16.39	
	M	10MHz	16.32	
	H	10MHz	16.09	-92.23
Band38	L	20MHz	17.1	
	M	20MHz	17.89	
	H	20MHz	18.22	-91.52
Band40	L	20MHz	17.55	
	M	20MHz	17.88	
	H	20MHz	16.73	-89.72
Band41	L	20MHz	16.9	
	M	20MHz	17.08	
	H	20MHz	17.99	-91.98

GSM	TRP (dBm)	TIS (dBm)
GSM850	25.76	
	25.69	
	25.61	-100.01
GSM900	25.76	
	25.86	
	25.61	-99.68
DCS	24.6	
	24.72	
	25.4	-102.53
PCS	24.82	
	24.32	
	24.5	-103.15

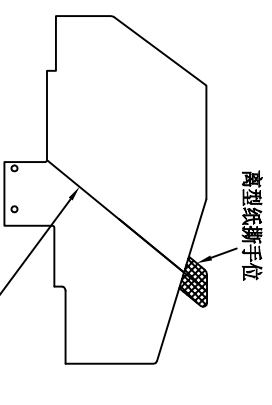
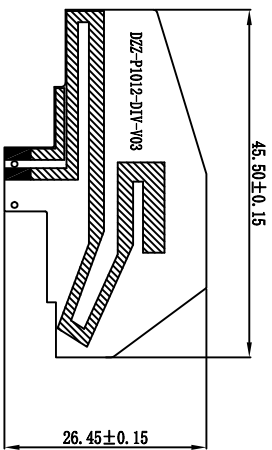
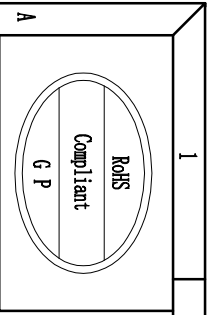
WCDMA	TRP (dBm)	TIS (dBm)
W1	17.43	
	17.8	
	18.08	-105.06
W8	17.32	
	17.19	
	16.48	-103.35

OTA B配置

LTE	Channels (Power / Sensitivity)	Test BW	TRP (dBm)	TIS (dBm)
Band1	L	10MHz	16.97	
	M	10MHz	17.63	
	H	10MHz	17.8	-90.08
Band2	L	10MHz	17	
	M	10MHz	17.81	
	H	10MHz	17.11	-90.27
Band3	L	10MHz	18.71	
	M	10MHz	18.49	
	H	10MHz	18.9	-91.44
Band4	L	10MHz	18.17	
	M	10MHz	18.53	
	H	10MHz	18.75	-91.77
Band5	L	10MHz	17.86	
	M	10MHz	17.89	
	H	10MHz	17.22	-91.93
Band7	L	10MHz	16.29	
	M	10MHz	16.97	
	H	10MHz	17.15	-90.78
Band12	L	10MHz	15.71	
	M	10MHz	16.12	
	H	10MHz	16.14	-91.23
Band17	L	10MHz	16.26	
	M	10MHz	16.33	
	H	10MHz	16.3	-90.57
Band25	L	10MHz	17.6	
	M	10MHz	17.15	
	H	10MHz	17.26	-90.5
Band26	L	10MHz	17.07	
	M	10MHz	17.65	
	H	10MHz	17.72	-90.16
Band28	L	10MHz	15.87	
	M	10MHz	16.03	
	H	10MHz	16.09	-91.29
Band38	L	20MHz	16.1	
	M	20MHz	16.77	
	H	20MHz	17.57	-90.75
Band41	L	20MHz	16.31	
	M	20MHz	16.55	
	H	20MHz	17.25	-91.96

GSM	TRP (dBm)	TIS (dBm)
GSM850	26.99	
	26.63	
	26.31	-100.35
GSM900	26.02	
	25.9	
	26.19	-100.04
DCS	24.15	
	24.14	
	25.17	-102.92
PCS	25.51	
	24.92	
	24.54	-103.51

WCDMA	TRP (dBm)	TIS (dBm)
W1	17.75	
	18.18	
	18.33	-105.96
W2	18.85	
	18.74	
	18.10	-105.87
W4	18.49	
	18.10	
	18.61	-106.39
W5	17.03	
	17.44	
	17.11	-103.81
W8	17.05	
	17.58	
	17.16	-103.19



- 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: 3ML94711E 包装方式: 单片
 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	Description	Date	Remark
A	New drawing		
1			

Third Angle		深 圳 得 自 在 科 技 有 限 公 司 SHEN ZHEN Be Comfortable CO., LTD	
0~10	±0.05	○	0.02
10~18	±0.10	◎	0.03
18~30	±0.12	⊥	0.02
30~40	±0.15	∇	0.04
40~	±0.20	Angle	±0.5°
Location		DWG No.	
5		6	
Project		Date	
P1012		2022.8.19	
Part Name		Designed by	
DIV		MD 田进	
Part No. F01-7045-ROA		Checked by	
Material FPC		RF 边博	
Approved by		Unit	mm
		Scale	1:1
		Rev	A

产品包装规范

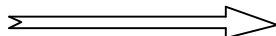
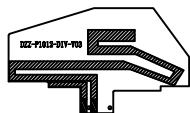
日期: 2022. 8. 19

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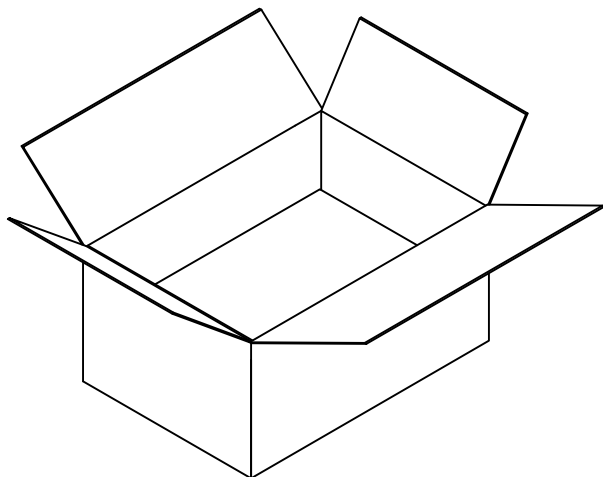
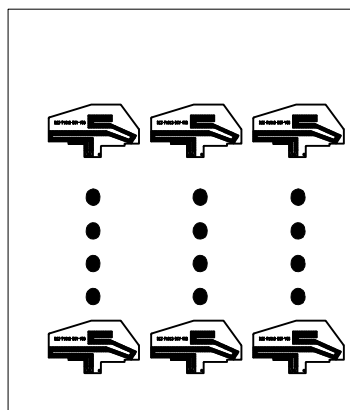
成品类型: 分集天线

版本: A

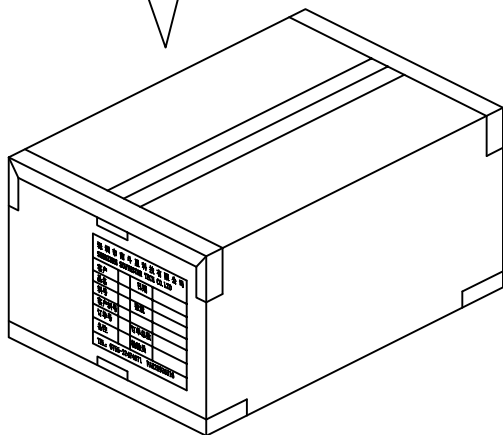
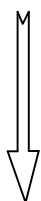
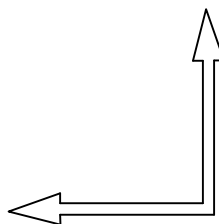
一: 成品天线



二: 用为微粘膜整版包装, 一袋装300pcs.



三: 装一箱, 一箱装12000PCS (以实际包装为准)



四: 封箱, 外箱贴我司生产标签和 ROHS 标签.

批准: _____

确认: _____

拟制: 田进

由 Autodesk 教育版产品制作

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