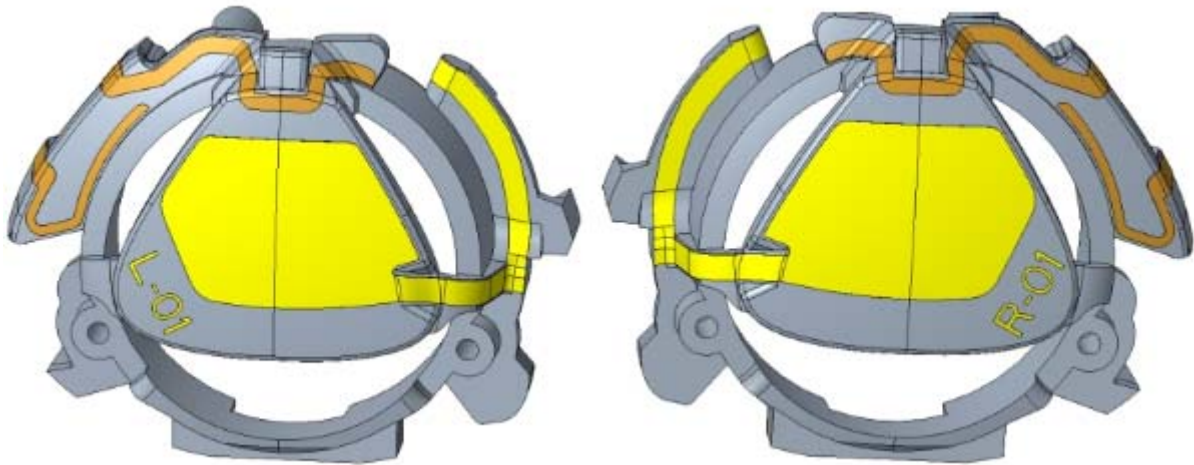




Cleer Bridge Antenna Spec



Part name: Antenna_LDS

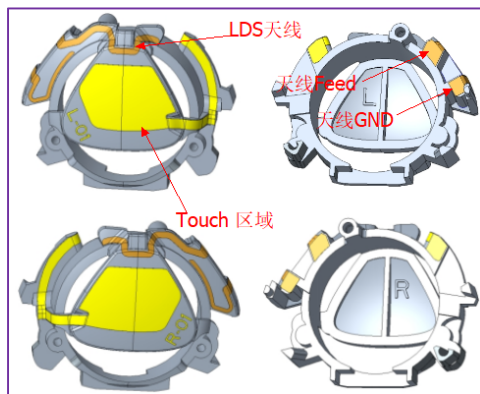
Client: Cleer

Date: 2026-05-22



1. Antenna Type

The antenna is LDS , attached to the outside of the mid- cover, and works in 2.4GHz ISM band , central frequency at 2.45GHz.



Antenna Type	Mono-pole _LDS	
Central Frequency	2.45GHz	
	L_Antenna	R_Antenna
Antenna length	13.0+9.5 mm	13.0+9.5 mm
Antenna width	0.5mm	0.5mm
Bandwidth	70MHz (Min)	70MHz (Min)
Return Loss	-9.6dB (Max)	-9.5dB (Max)
Peak Gain	-4.20dBi	-4.50dBi
Antenna Manufacturer	Sunnyway （尚远科技）	
制造商地址	深圳市光明区南太云创谷 5 栋 6 楼	

Address

6th Floor, Building 5, Nantai
Yunchuang Valley, Guangming
District, Shenzhen

2. Test Lab

Test lab: ETS Microwave Chamber with 23 measurement antennas in Grandsun Electronics OTA Lab.

AMS-8923 Basics

Regular Chamber Size: 16ft L x 16ft W x 16ft H
(4.9m x 4.9m x 4.9m)

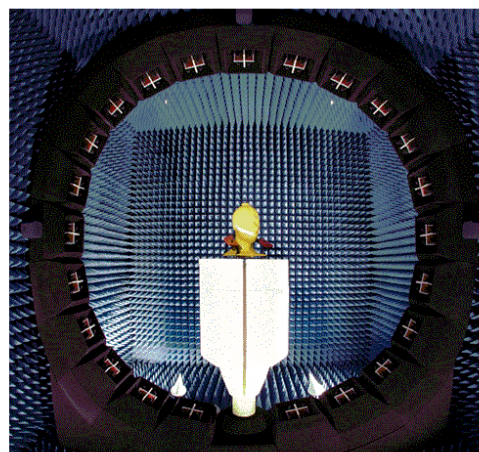
Test Distance: 1.95 meter

Frequency: 700MHz – 6GHz

Fully anechoic covered
with EHP-12 absorbers

Quiet Zone Diameter:

- 30cm
- 50cm
- per CTIA 3.2 versions

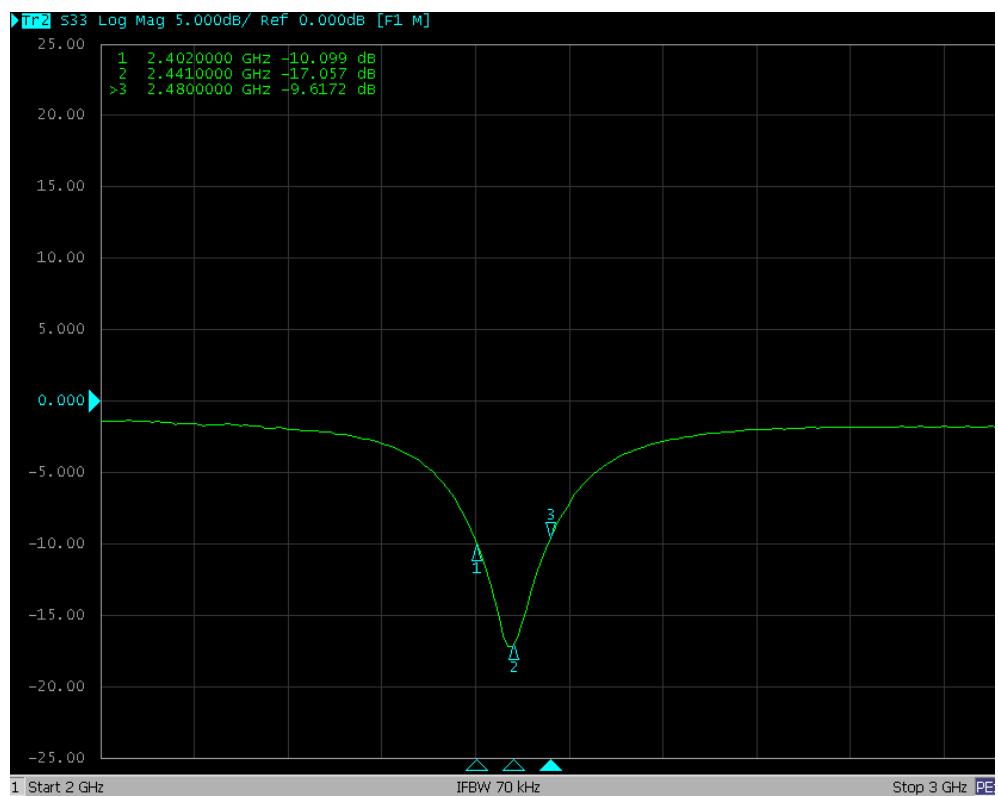
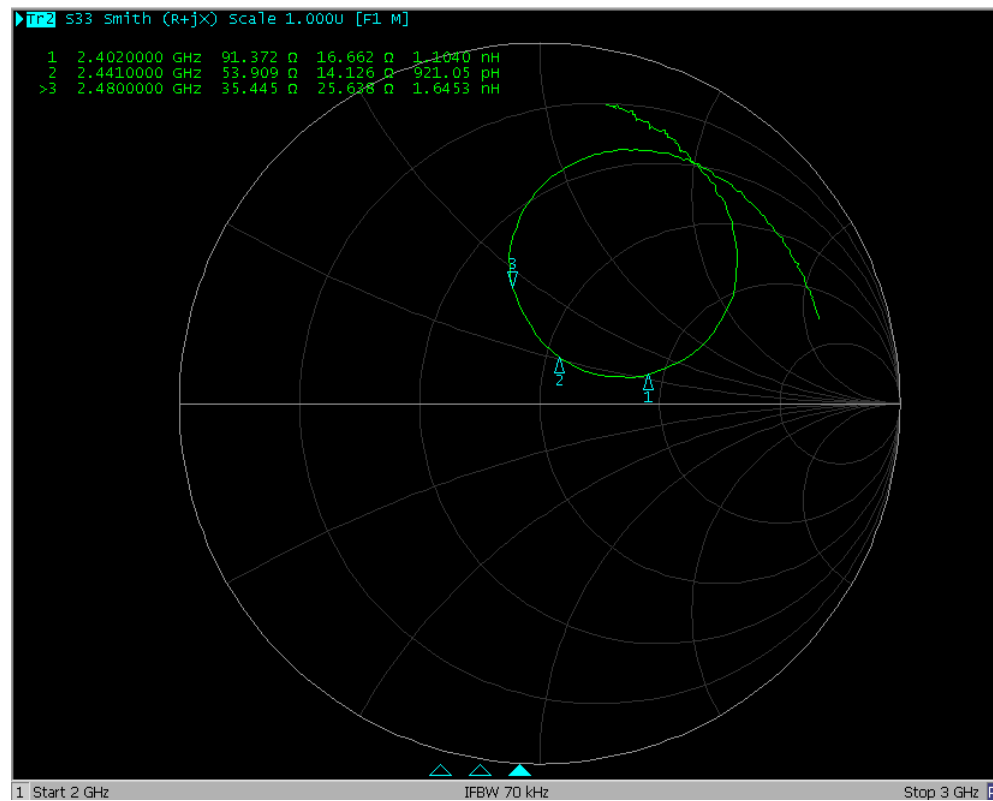


ETS·LINDGREN



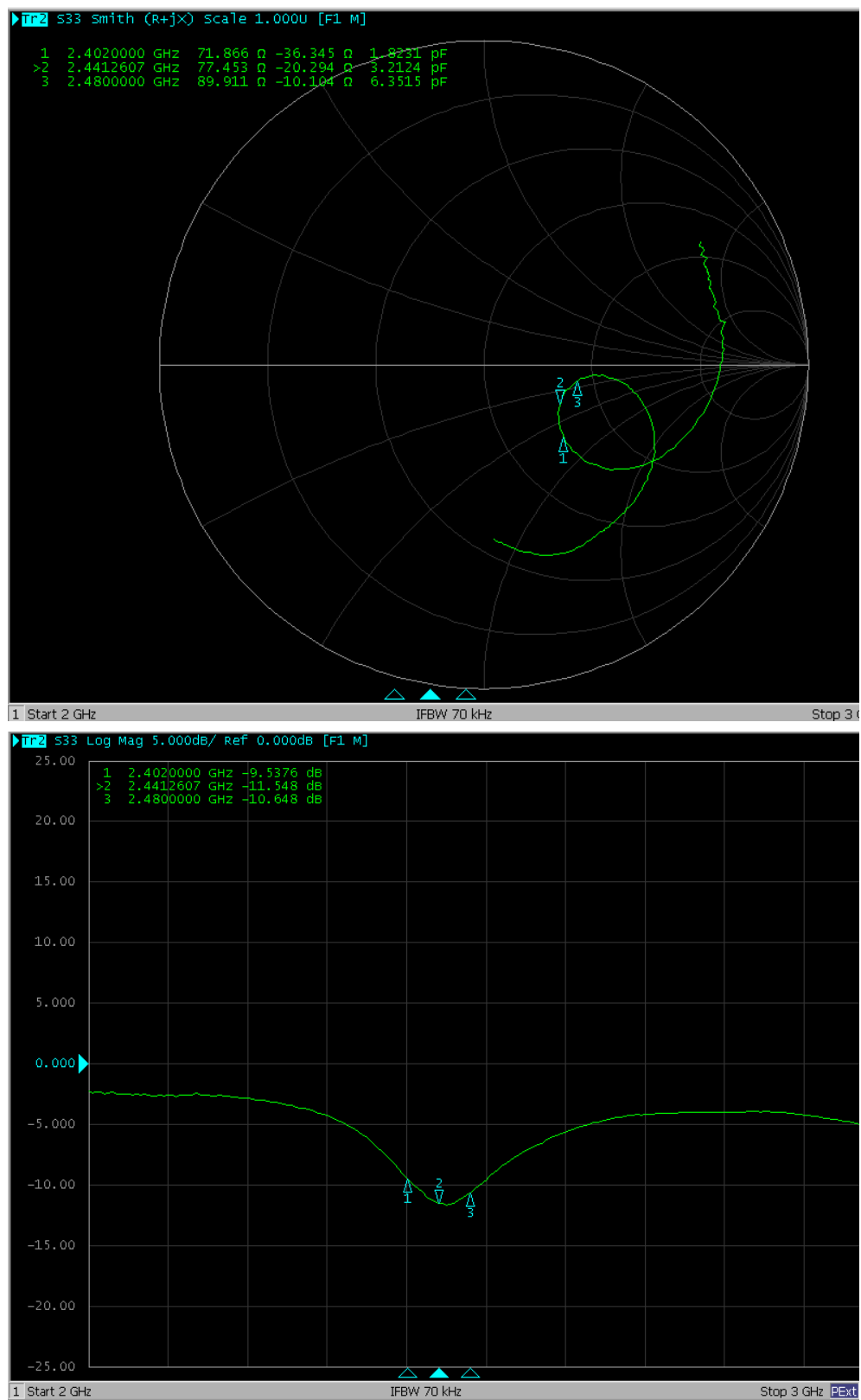
3. Passive test -S11

3.1 L Antenna





3.2 R Antenna





4. Passive Efficiency and Gain

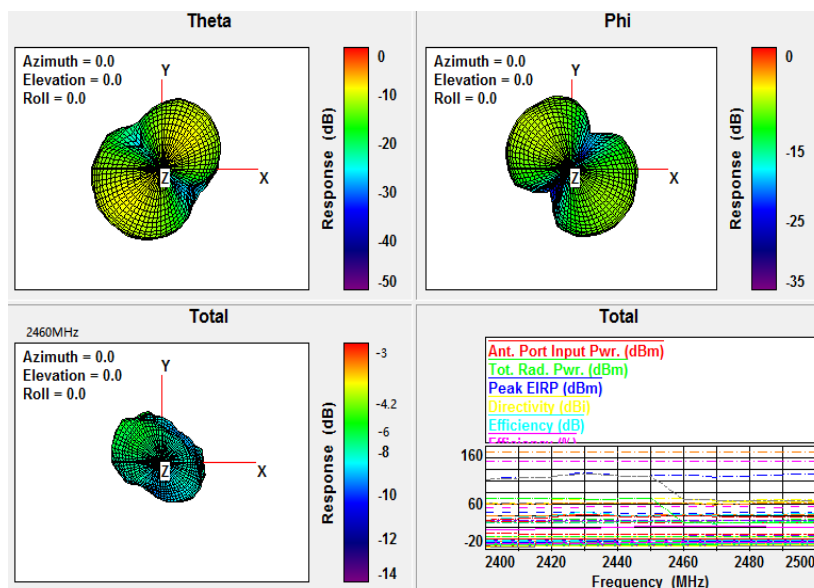
	Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
L Antenna	Efficiency/%	16.24	17.07	17.90	18.20	18.80	19.51	19.59	19.25	19.19	19.01
	Gain/dBi	-5.05	-4.92	-4.81	-4.92	-4.66	-4.26	-4.20	-4.36	-4.63	-4.56
R Antenna	Efficiency/%	16.01	16.40	17.19	17.40	17.69	18.16	18.09	17.93	17.09	16.67
	Gain/dBi	-5.06	-4.98	-4.78	-4.69	-4.65	-4.50	-4.54	-4.66	-4.75	-4.82

【Remark】 2402-2480MHz Peak Gain -4.20 dBi(L) / -4.50 dBi(R)

5. Passive Test Graph

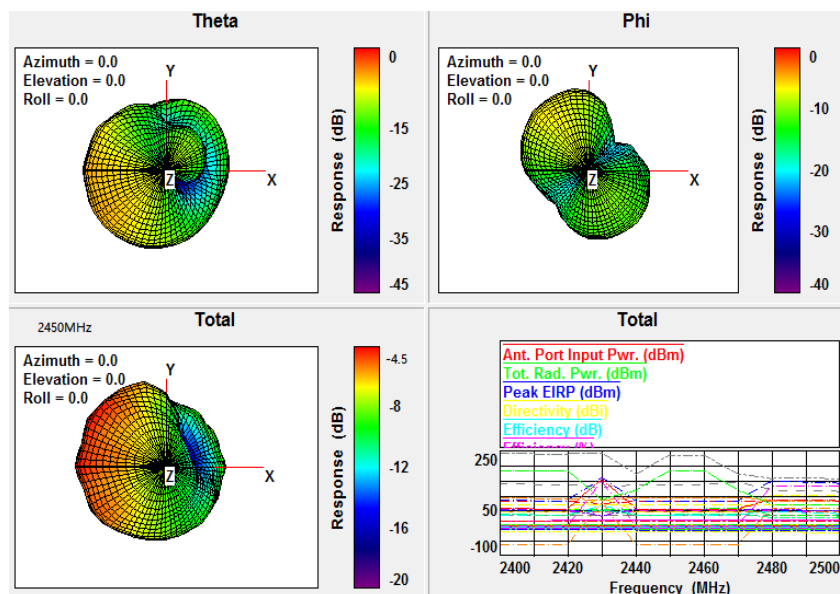
L_Antenna

Passive graph



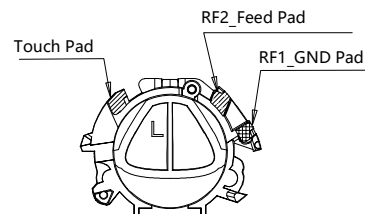
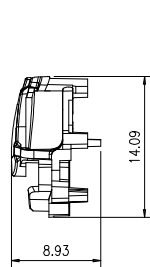
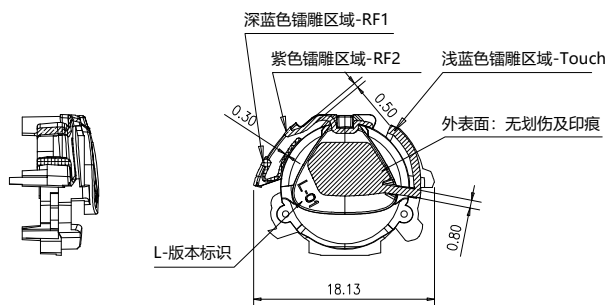
R_Antenna

Passive graph



【技术要求：】 Technical Requirements

1. 镭雕线路严格按照3D图档制作;
The laser-engraved circuits are precisely manufactured according to the 3D drawings.
2. 镭雕线路不能断线, 不能溢镀, 不能有毛刺, 表面不能有氧化、脏污等;
The laser-engraved circuits must not have broken lines, overplating, burrs, or oxidation, dirtiness, etc. on the surface.
3. 线路宽度按图纸标注;
The width of the circuits is as indicated in the drawings.
4. 天线表面为银白色;
The surface of the antenna is silver-white.
5. 镭雕天线必须要用网络分析仪做RF全检, 保证出货一致性;
The laser-engraved antenna must undergo RF full inspection using a network analyzer to ensure consistency in shipment.
6. 出货时需提供RF全检报告.
When shipping, a RF full inspection report must be provided.
7. 本产品使用物料及制程需符合《冠旭环境物质管理技术标准》中有害物质禁限要求。
The materials used and the manufacturing process of this product must comply with the harmful substance prohibition and restriction requirements stipulated in the "Guan Xu Environmental Substance Management Technical Standards".



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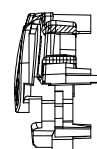
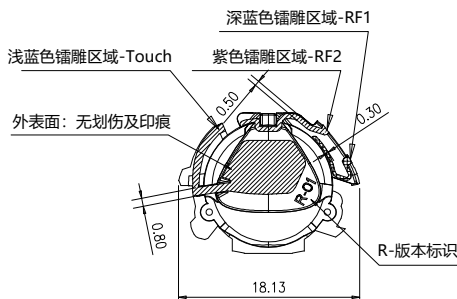
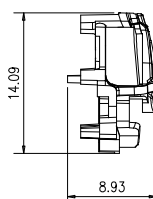
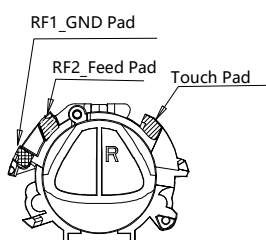
特殊符号表示	
	版本变更标示
	重点尺寸: 注公差
	重要尺寸: 普通公差
	参考尺寸: 参考用
	特殊要求

物料清单 BOM									
ITEM	ITEM QTY	料号 PART NO.	客户料号 PART NO.	规格料号 TOOLING NO.	描述 DESCRIPTION	材料 MATERIAL	材料规格 MATERIAL SPEC	颜色 COLOUR	表面处理 FINISH
1	1	5514000161122		GS-EWQ-7300-E01	左LDS支架 (铝圈)	ABC+PC	NC10302-BK0AT(LDS专用料)	黑色	LDS蚀抛天丝

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材料 MATERIAL 見左邊列表		所有尺寸均以公制單位表示 ALL DIMENSIONS IN MILLIMETERS AND TOLERANCES AS SPECIFIED UNLESS OTHERWISE SPECIFIED X1000 ± 0.10 X 0.10 X 0.10 X1000 ± 0.050 X 0.1 X 0.1		零件名稱 零件 NAME 日期 DATE 2024/05/28 2025/2/28 零件 SIZE 圖面規格 DWG. NO. 版本 REV.	
處理方法 處理 METHOD 見左邊列表		設計 DESIGN 2024/05/28 2025/2/28 圖面規格 DWG. NO. 版本 REV.		圖面規格 DWG. NO. 版本 REV.	
不適用於此圖樣 NOT SCALE DRAWING 尺寸請參照圖樣內之 DIMENSIONS Apply FROM FINISHING		第三角投影 Third Angle projection		圖面規格 DWG. NO. 版本 REV.	

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特殊符号表示	
	版本变更标示
	重点尺寸: 公差
	重要尺寸: 普通公差
()	参考尺寸: 参考用
	特殊要求

物料清单 BOM									
序号 ITEM NO.	数量 QTY.	料号 PART NO.	客户料号 PART NO.	规格料号 TOOLING NO.	描述 DESCRIPTION	材料 MATERIAL	材料规格 MATERIAL SPEC	颜色 COLOUR	表面处理 FINISH
1	1	551400016132		GS-EWQ-7300-E01	右LDS支架 (植锡)	ABC+PC	NO16302-BONATLDS零件用	黑色	LDS蚀抛天线

[illegible]