

# 深圳市凌度汽车电子有限公司

**Shenzhen Lingdu Automotive Electronics Co., Ltd**

## Antenna specification

|               |                 |                 |            |
|---------------|-----------------|-----------------|------------|
| Project Title |                 | Antenna Version | <b>V03</b> |
| Data          | <b>2024/6/2</b> | Report Version  | <b>A1</b>  |
| Engineer      |                 | Telephone       |            |



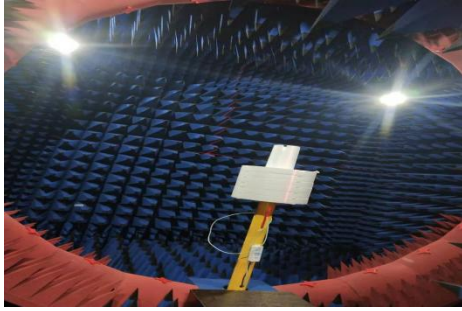
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# Introduction to project debugging

|                                     |   |           |            |          |
|-------------------------------------|---|-----------|------------|----------|
| Project Title                       |   |           |            |          |
| Antenna type                        | onboard                                   |           |            |          |
| Frequency band and antenna material | Antenna                                   | Frequency |            | material |
|                                     |   | BLE       | 2.4G-2.48G | FR4      |
| demand                              | Execute according to project requirements |           |            |          |

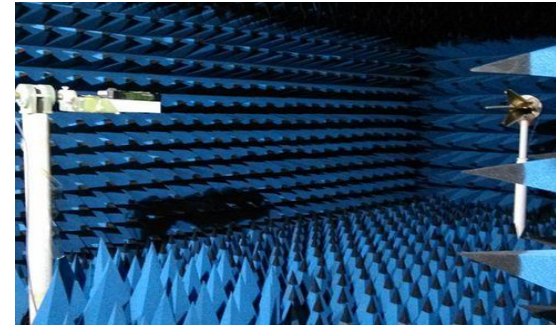
# Test equipment description



24probe anechoic chamber



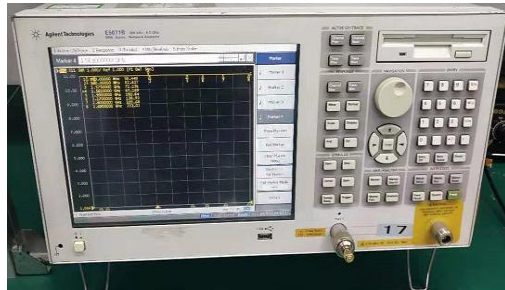
CMW500



7\*4\*3M ETS anechoic chamber



Agilent 8960



Agilent E5071B



high-low temperature chamber

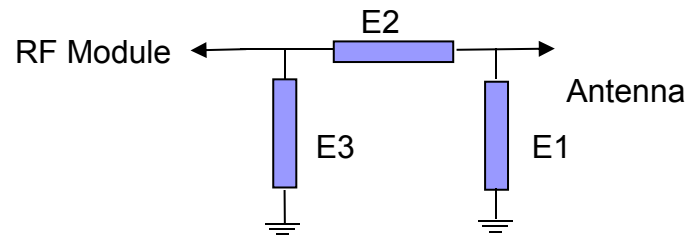


MT8820C

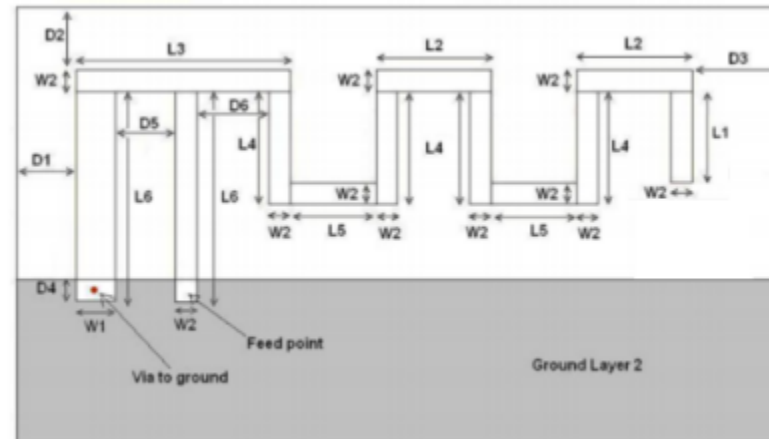


HP8753ES

# Matching circuit specification

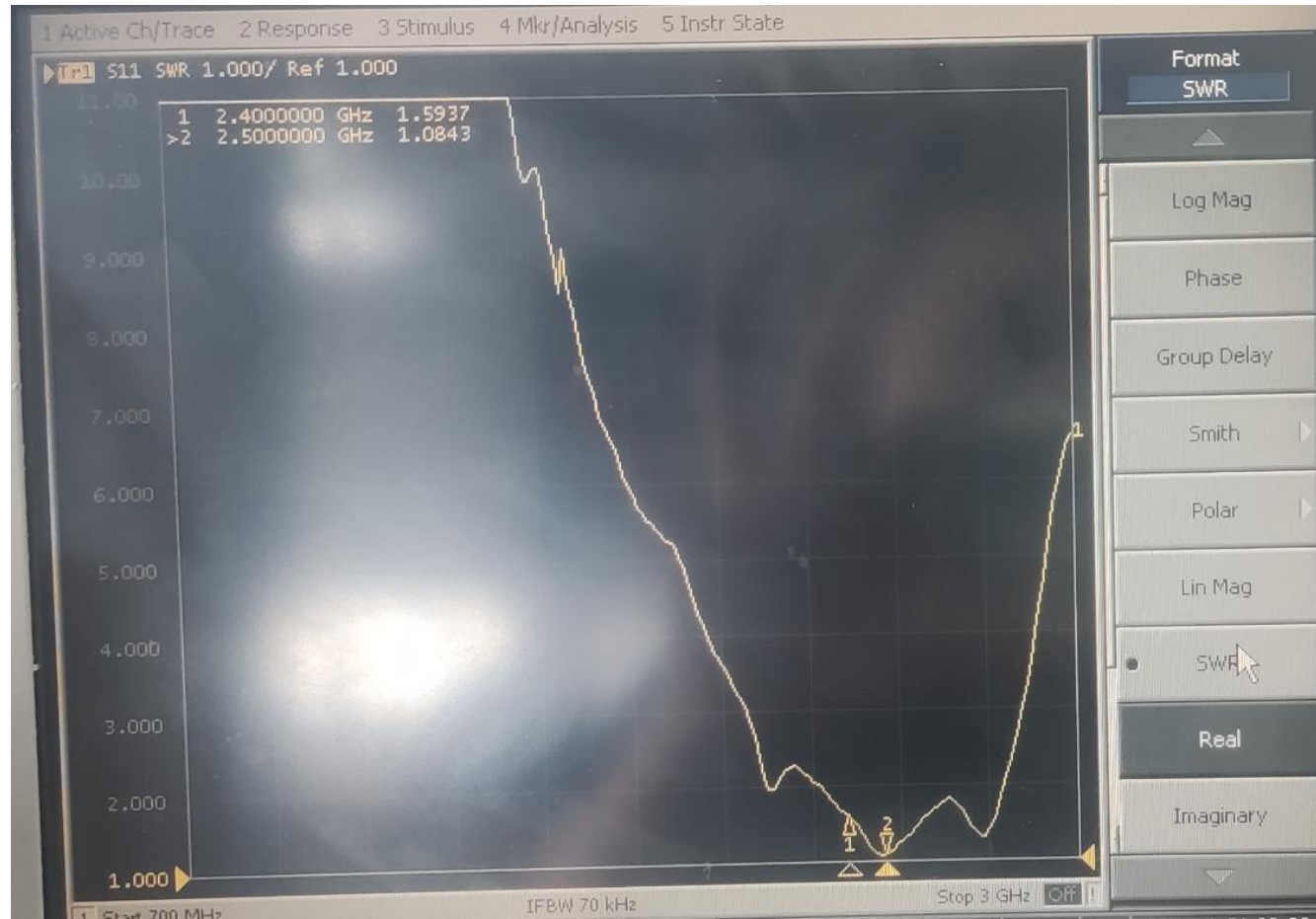


| BLE | Element   | Value |
|-----|-----------|-------|
|     | E1 (0402) | 0.5PF |
|     | E2 (0402) | 0R    |
|     | E3 (0402) | N/A   |
|     |           |       |



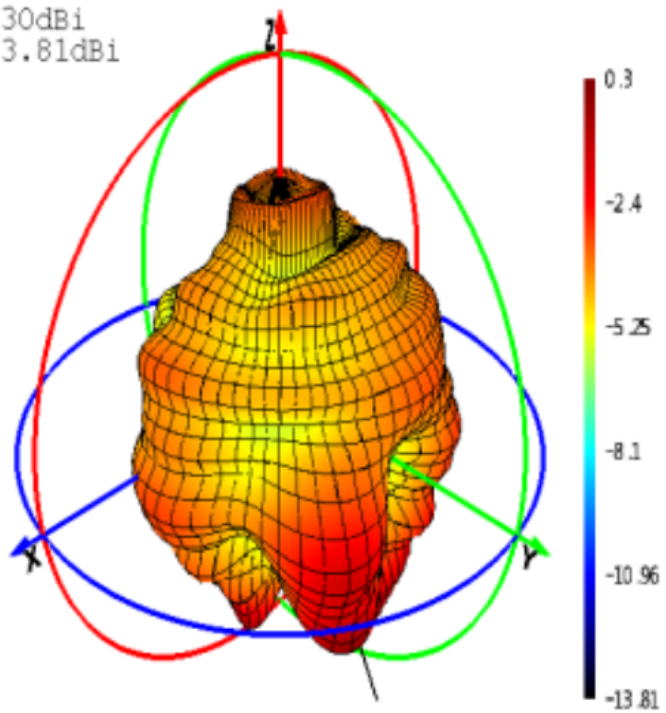
|    |        |
|----|--------|
| L1 | 2.39mm |
| L2 | 2.70mm |
| L3 | 5.00mm |
| L4 | 2.64mm |
| L5 | 2.00mm |
| L6 | 4.90mm |
| W1 | 0.90mm |
| W2 | 0.50mm |
| D1 | 0.50mm |
| D2 | 0.30mm |
| D3 | 0.30mm |
| D4 | 0.50mm |
| D5 | 1.40mm |
| D6 | 1.70mm |

# Antenna standing wave



# 3D图

MAX:0.30dBi  
MIN:-13.81dBi







**Thanks.**