

# Antenna Specification

## V1.0

|                     |                 |
|---------------------|-----------------|
| <b>Customer</b>     | 置鼎科技            |
| <b>Project name</b> | K5              |
| <b>Model. IC</b>    | AB5301F         |
| <b>Model. ANT</b>   | KBAN3216E245H02 |

Manufacturer: Huizhou Zhiding Technology Co., Ltd.

Address: Room 06, 3rd Floor, Building 6, Tianfuhong Garden, No. 5 Binhe Avenue South, West District, Daya Bay, Huizhou

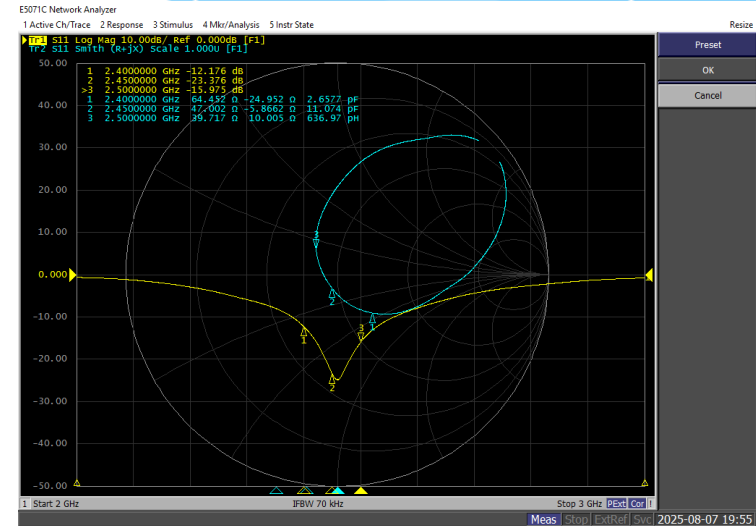
2025/03/07

# Product Appearance

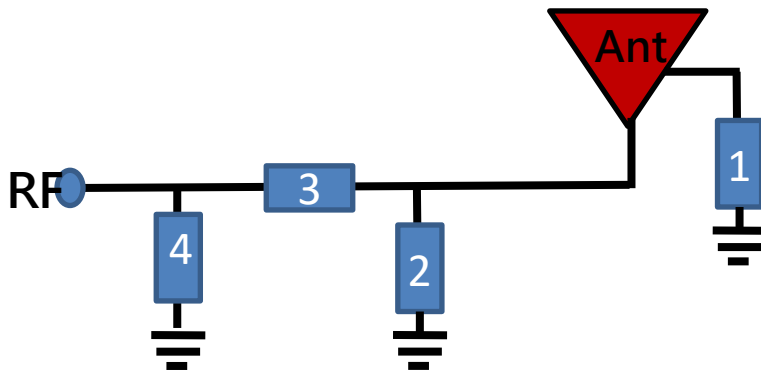


# Ant. Matching

- Antenna Placement

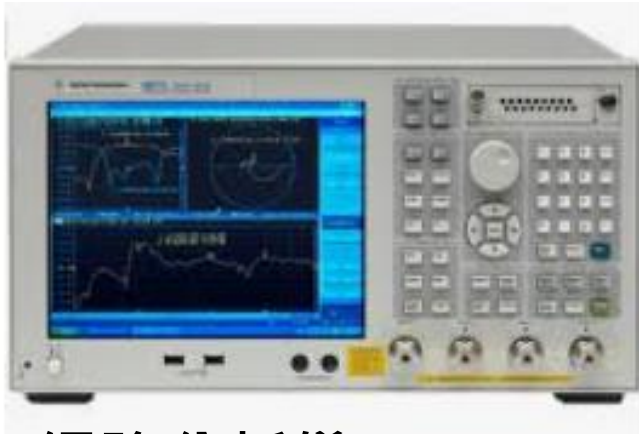


- Matching Circuit



|      | LC              | P/N         |
|------|-----------------|-------------|
| Ant. | KBAN3216E245H02 |             |
| 1    | 5.6PF           | 0402/Murata |
| 2    | NC              | /           |
| 3    | 5.6PF           | 0402/Murata |
| 4    | NC              | /           |

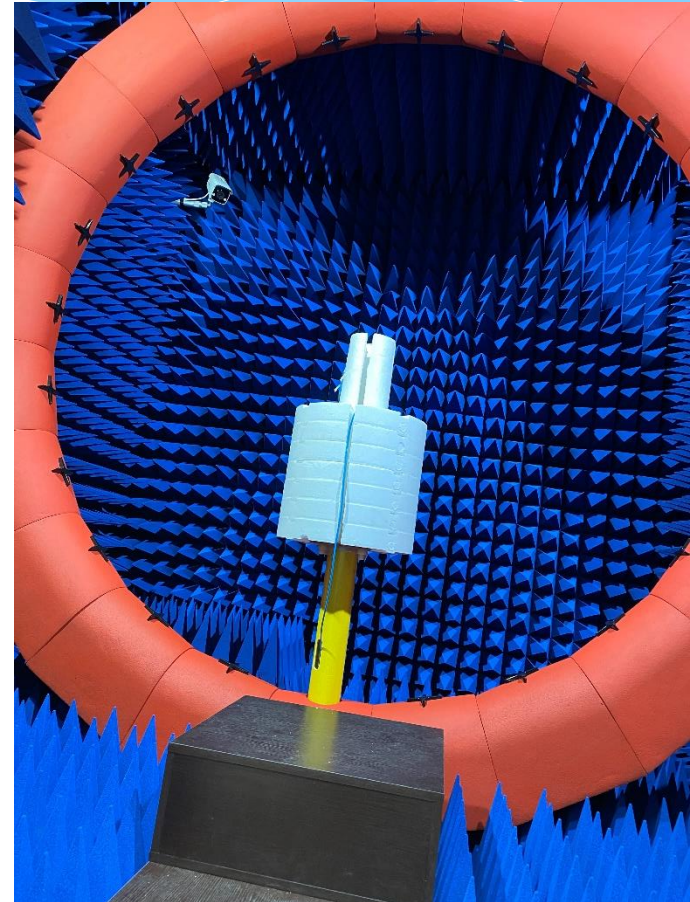
# Equipment of OTA test



網路分析儀 E5071C



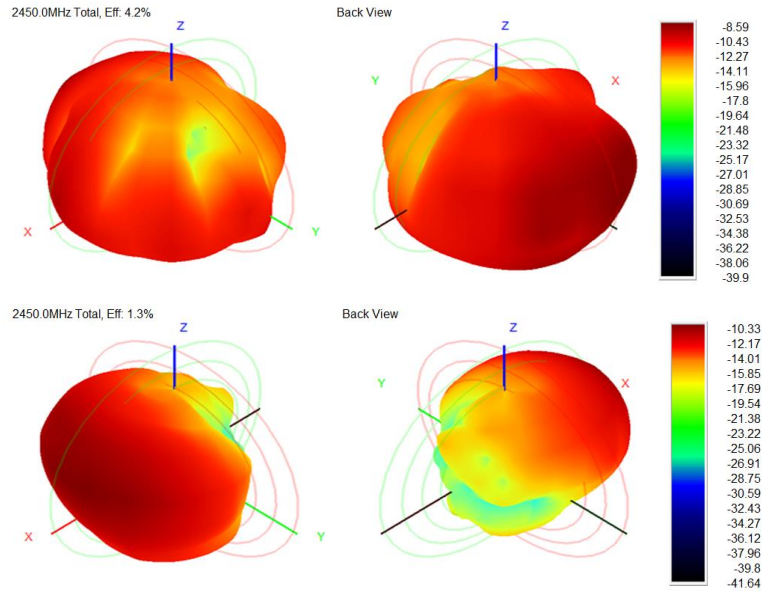
綜合測試儀 CMW500



微波暗室 FTM-24D多探頭

# Ant. Gain Pattern @2.4GHz

- Passive Test



|                  |        |        |        |        |        |        |        |        |        |        |        |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz)  | 2400.0 | 2410.0 | 2420.0 | 2430.0 | 2440.0 | 2450.0 | 2460.0 | 2470.0 | 2480.0 | 2490.0 | 2500.0 |
| Efficiency (dBi) | -13.52 | -13.43 | -13.44 | -13.45 | -13.48 | -13.72 | -13.85 | -13.85 | -14.04 | -14.40 | -14.62 |
| Gain (dBi)       | -8.43  | -8.31  | -8.35  | -8.37  | -8.41  | -8.59  | -8.63  | -8.50  | -8.56  | -8.79  | -8.93  |
| Efficiency (%)   | 4.45   | 4.54   | 4.53   | 4.52   | 4.49   | 4.24   | 4.12   | 4.12   | 3.95   | 3.63   | 3.45   |