

# Antenna



連騰科技股份有限公司

*The Most Appropriate Antenna for Your Design!*

*Advanced Wireless & Antenna Inc.*

## Lansinoh\_Smart Pump 3.0

**CUSTOMER: GOLDTek (沅聖科技股份有限公司)**

**MODEL NAME: Chip Antenna**

**AWAN P/N: AEP00-000003**



B2, No. 207, Sec.3, Beixin Rd., Xindian  
Dist., New Taipei City 231, Taiwan, R.O.C

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[Http://www.awan-ant.com](http://www.awan-ant.com)



# Test Environment and Equipments

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## ACON 3D Chamber Structure

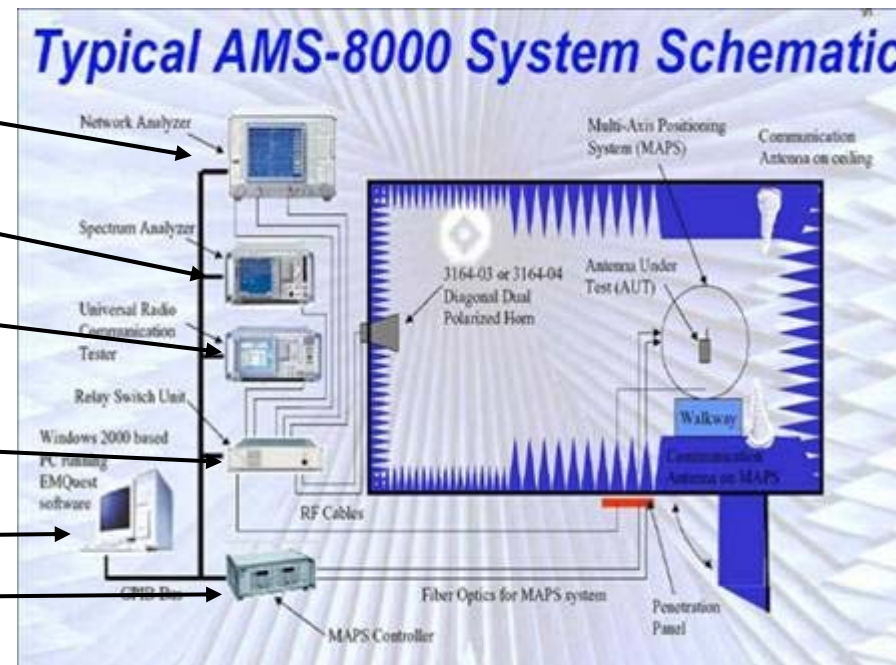
- ETS-Lindgren AMS-8000 Series System Components
- Chambers
- EMQuest EMQ-100 Software
- Positioning Systems
- Chamber Room Size: L\*W\*H=7.3\*3.7\*3.7 M

VSWR were performed using an Agilent S-parameter Network Analyzer.



NA 8720ES

- **Network Analyzer**  
Agilent 8720ES
- **Spectrum Analyzer**  
R&S FSP13
- **Universal Radio Communication Tester**  
R&S CMU200
- **Switch**  
Agilent 3499B
- **PC and Software**
- **Rotate Controller**  
ETS-Lindgren 2090



# Chip Antenna Picture

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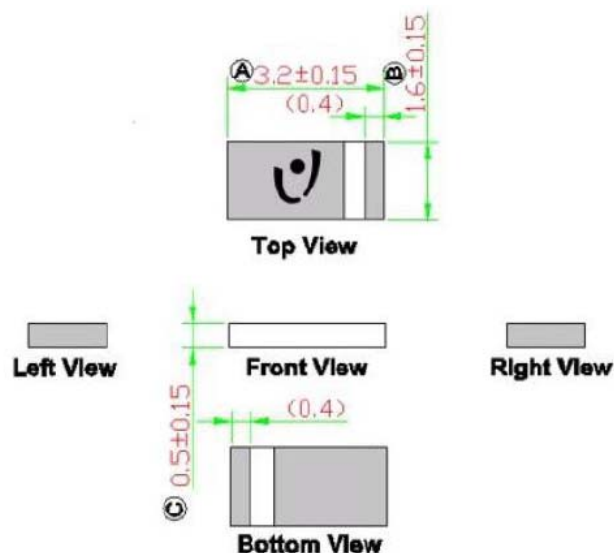
# Chip Antenna Dimensions



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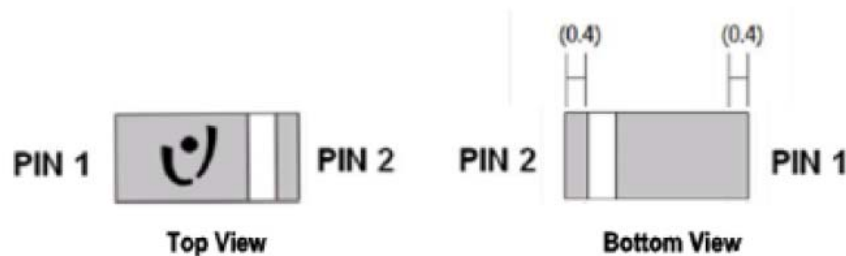
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NOTE:  
 1. All materials are RoHS 2.0 compliant.  
 2. "A~C" Critical Dimensions.  
 3. "( )" Reference Dimensions.

## PIN Definition



| PIN           | 1      | 2               |
|---------------|--------|-----------------|
| Soldering PAD | Signal | Tuning / Ground |

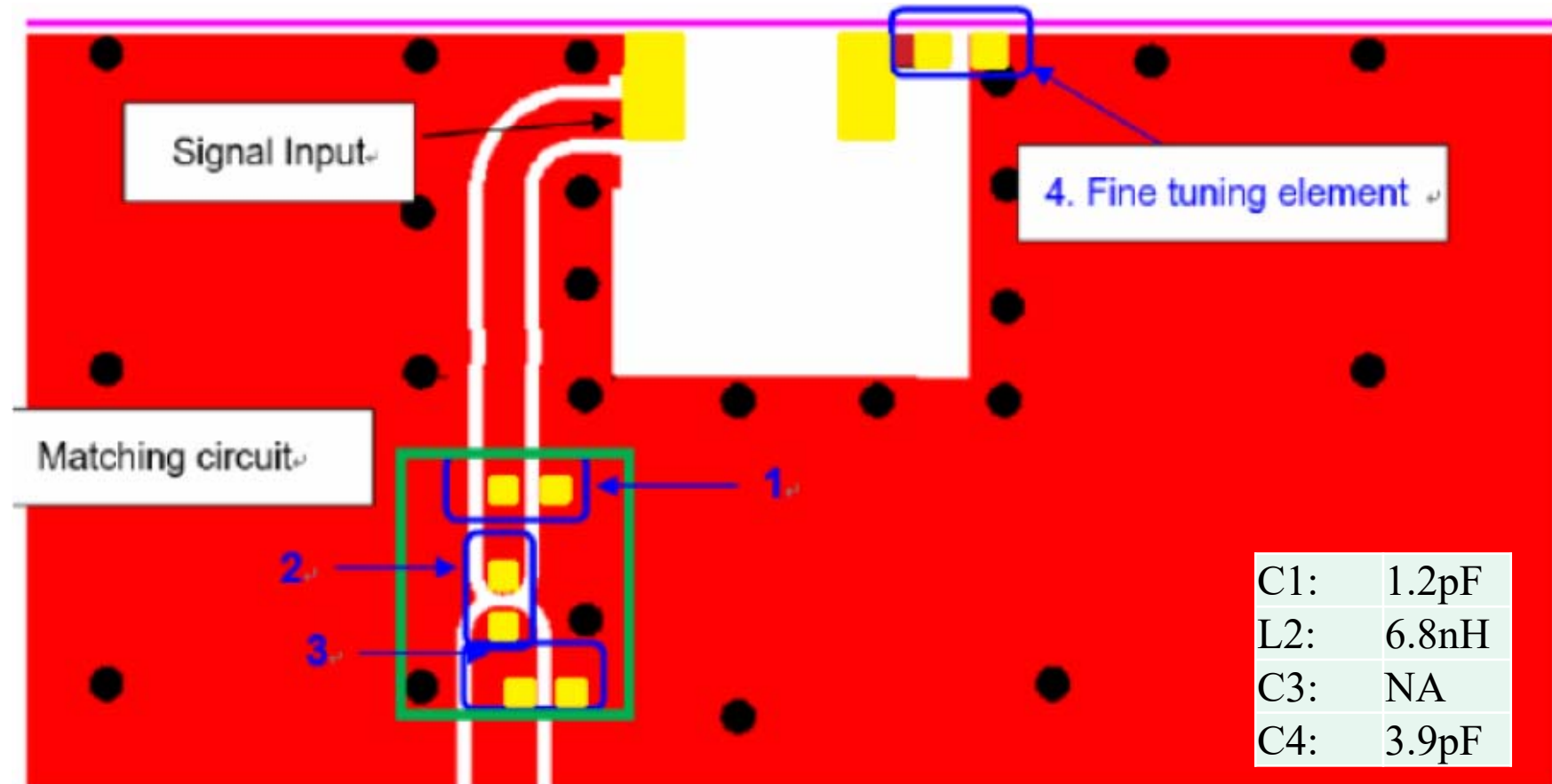
# Frequency tuning and Matching circuit



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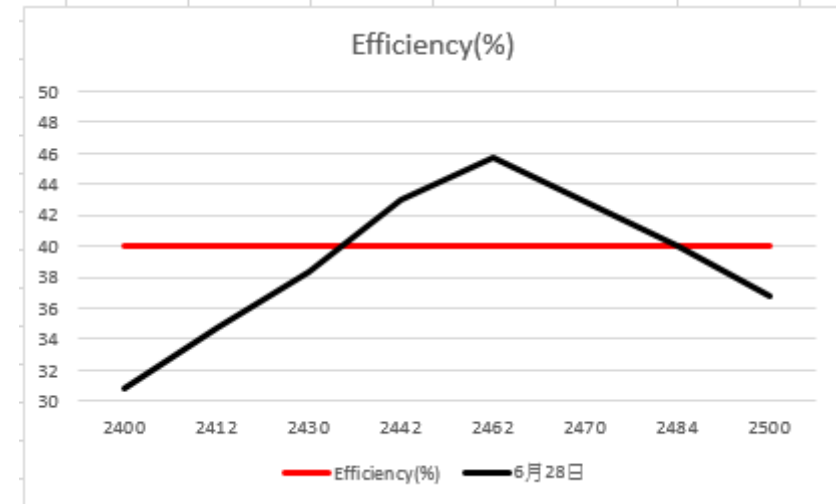
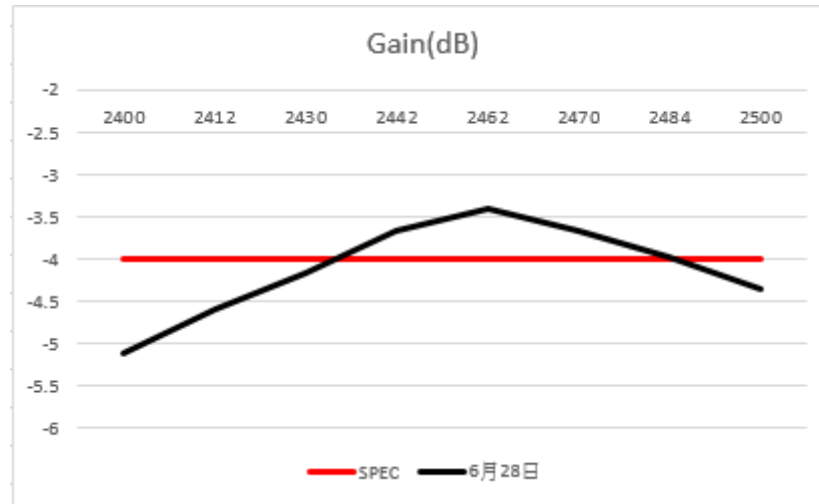


# Test Result: Gain & Efficiency

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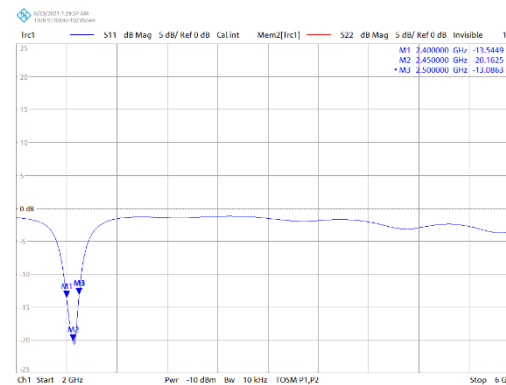
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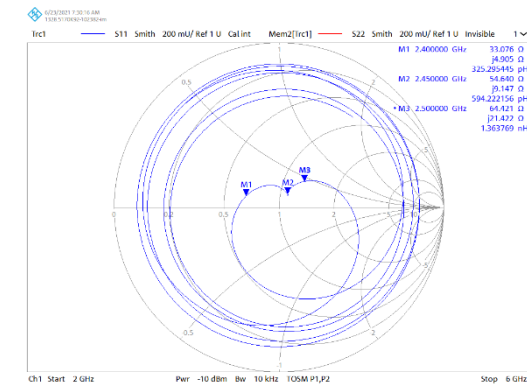


|      | Gain(dB) | Efficiency(%) |
|------|----------|---------------|
| 2400 | -5.114   | 30.8          |
| 2412 | -4.603   | 34.64         |
| 2430 | -4.158   | 38.38         |
| 2442 | -3.665   | 43            |
| 2462 | -3.4     | 45.7          |
| 2470 | -3.677   | 42.88         |
| 2484 | -3.973   | 40.05         |
| 2500 | -4.349   | 36.73         |

## Return Loss



## Smith



# Test Result: 3D Radiation

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