



Embedded Antenna Spec

Aristotle Enterprises Inc.

- **Specimen Information**

Antenna description & product photo

- **Radiation Pattern and Gain Test**

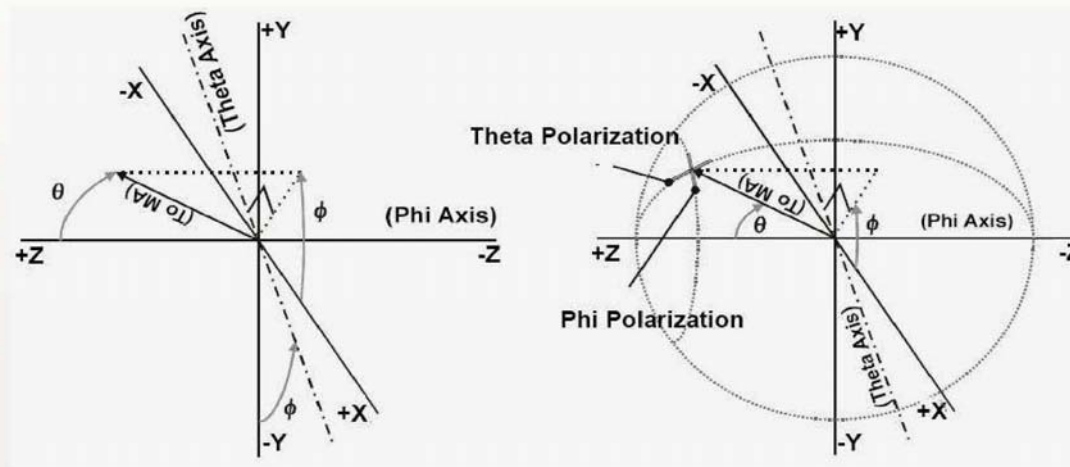
Test configuration

Test result

Spherical Pattern Measurement



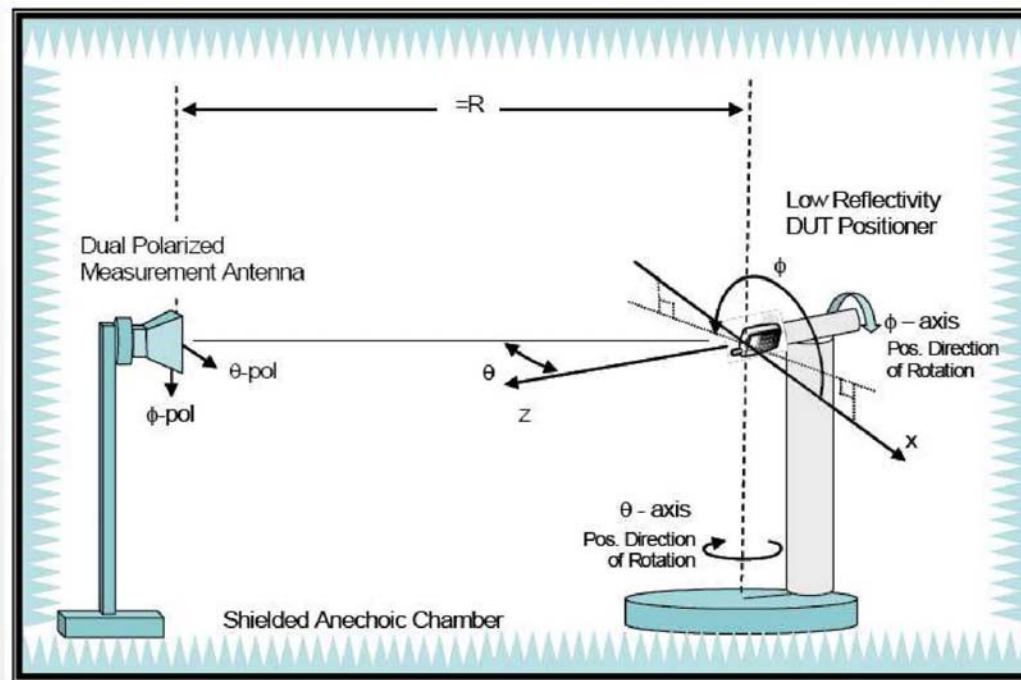
- Defining rotational axes and polarization directions in terms of a spherical coordinate system in the AUT reference frame avoids confusion between different test systems



Chamber Configuration & Test Setup



► Typical Setup—Great circle—Free Space



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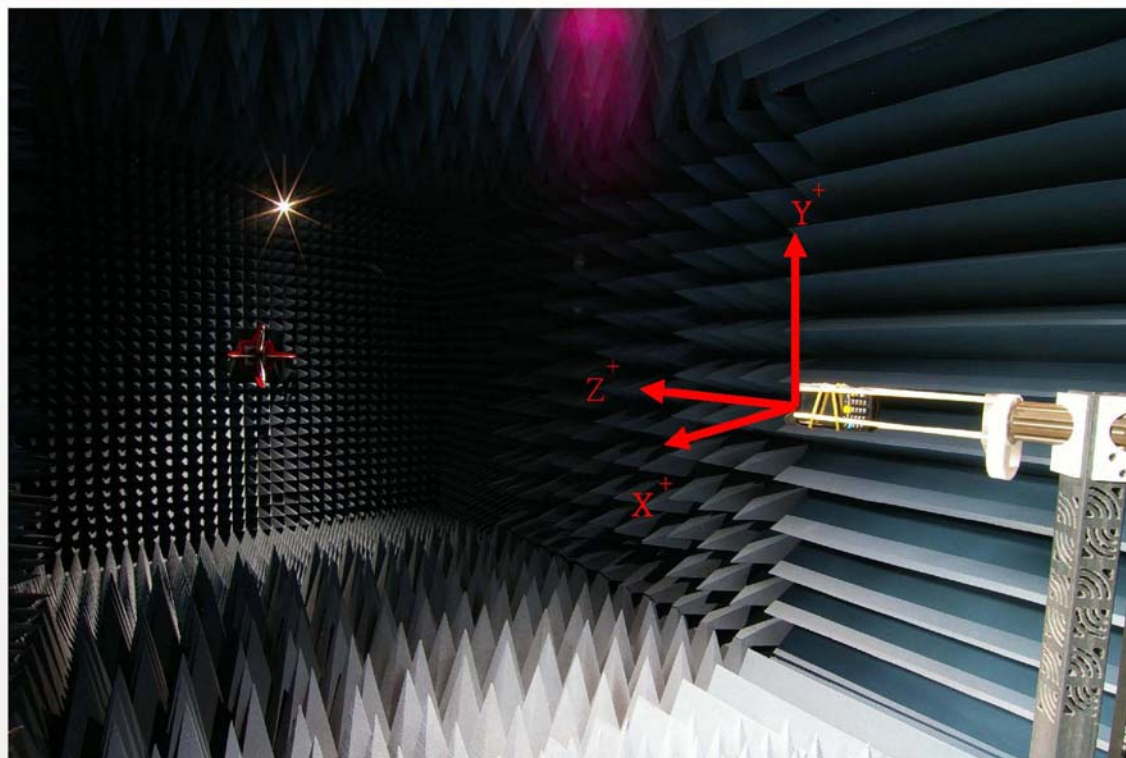
CTIA OTA / Wi-Fi CWG-RF / WiMAX RPT Facility



- Manufacture : ETS-Lindgren
- Model: AMS8500
- Internal Dimensions:
7.32x3.66x3.45 m (Lx W x H)
- Measurement Distance: 4.86 m
- Frequency Range: 400MHz ~ 6GHz
- Shielding Effectiveness: >100 dB.
- Quiet Zone Performance:
 - OTA : <0.59dB (worst frequency)
 - CWG-RF: <0.66dB
 - RPT: <0.47dB(worst frequency)

Real one stop service for CTIA OTA, Wi-Fi CWG-RF, WiMAX RPT and Passive Antenna pattern.

Typical Setup—Great circle—Free Space



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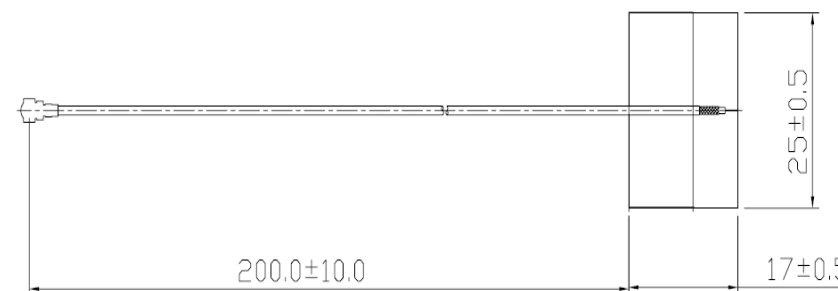
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Antenna Information

RFA-02-P33-70-200-K

Frequency	2400/2450/2500MHz
Polarization	Linear, vertical
Type	Dipole
Impedance	50 Ω
Temperature	- 10°C to +55°C
Connector	I-PEX
Cable	OD=1.13 /L=200mm

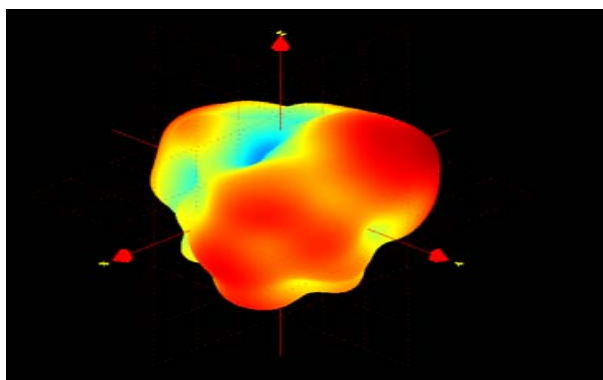
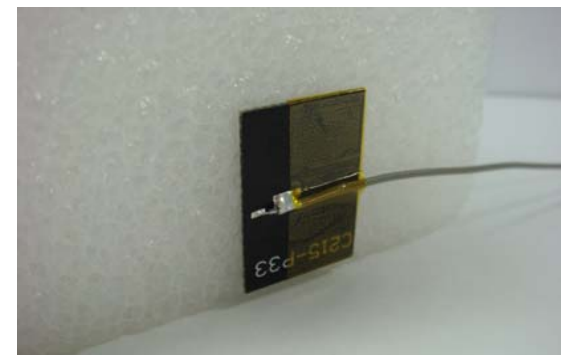


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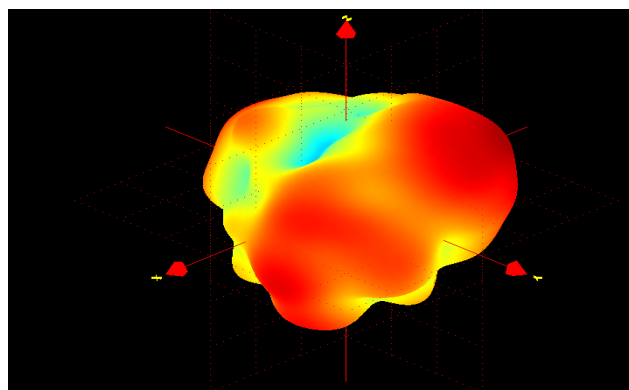
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Gain Table

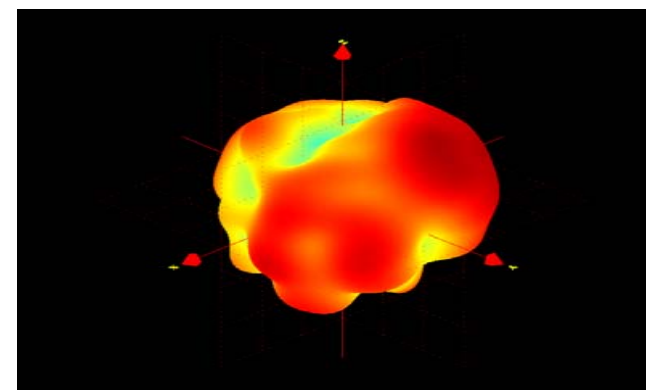
Frequency	Efficiency	Avg. Gain (dB)	Peak Gain (dB)
2400MHz	65.28%	-1.85	2.78
2450MHz	72.08%	-1.42	2.87
2500MHz	68.27%	-1.66	2.13



2400MHz



2450MHz



2500MHz

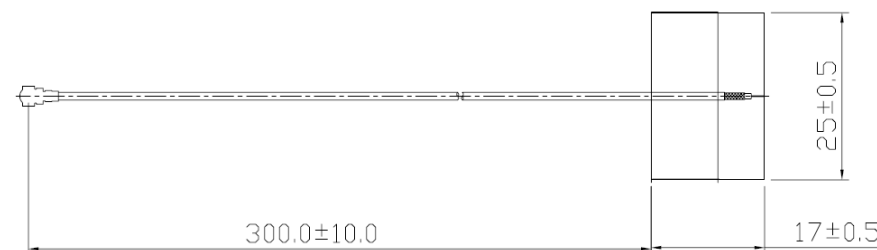
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Antenna Information

RFA-02-P33-70B-350-K

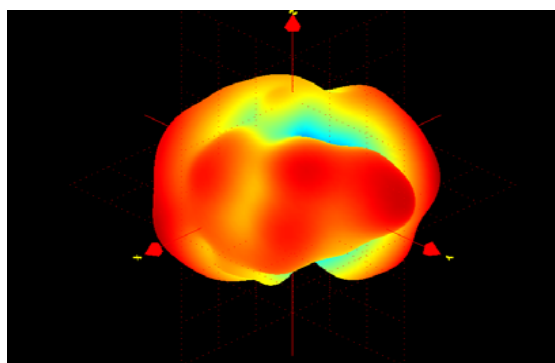
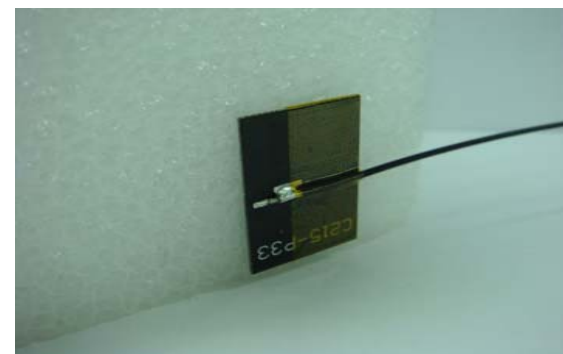
Frequency	2400/2450/2500MHz
Polarization	Linear, vertical
Type	Dipole
Impedance	50 Ω
Temperature	- 10°C to +55°C
Connector	I-PEX
Cable	OD=1.13 / L=350mm



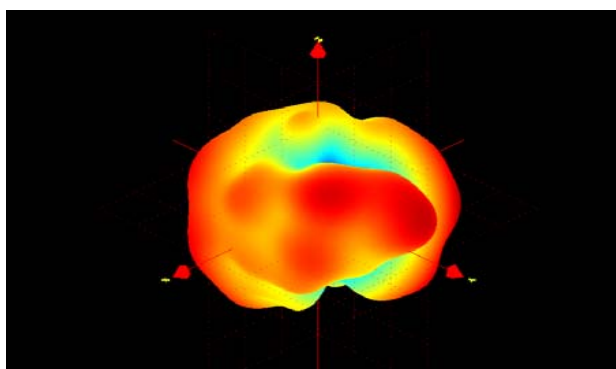
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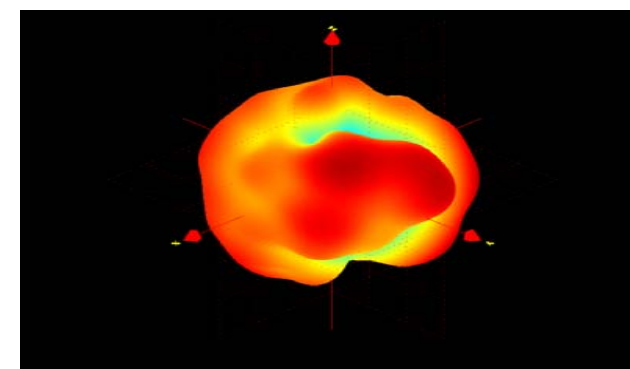
Frequency	Efficiency	Avg. Gain (dB)	Peak Gain (dB)
2400MHz	58.70%	-2.31	1.67
2450MHz	70.09%	-1.54	2.61
2500MHz	68.69%	-1.63	2.82



2400MHz



2450MHz



2500MHz

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