

SERCOM

ADT / SSGB5R0-29
Internal Antenna Data Sheet

September. 13, 2023

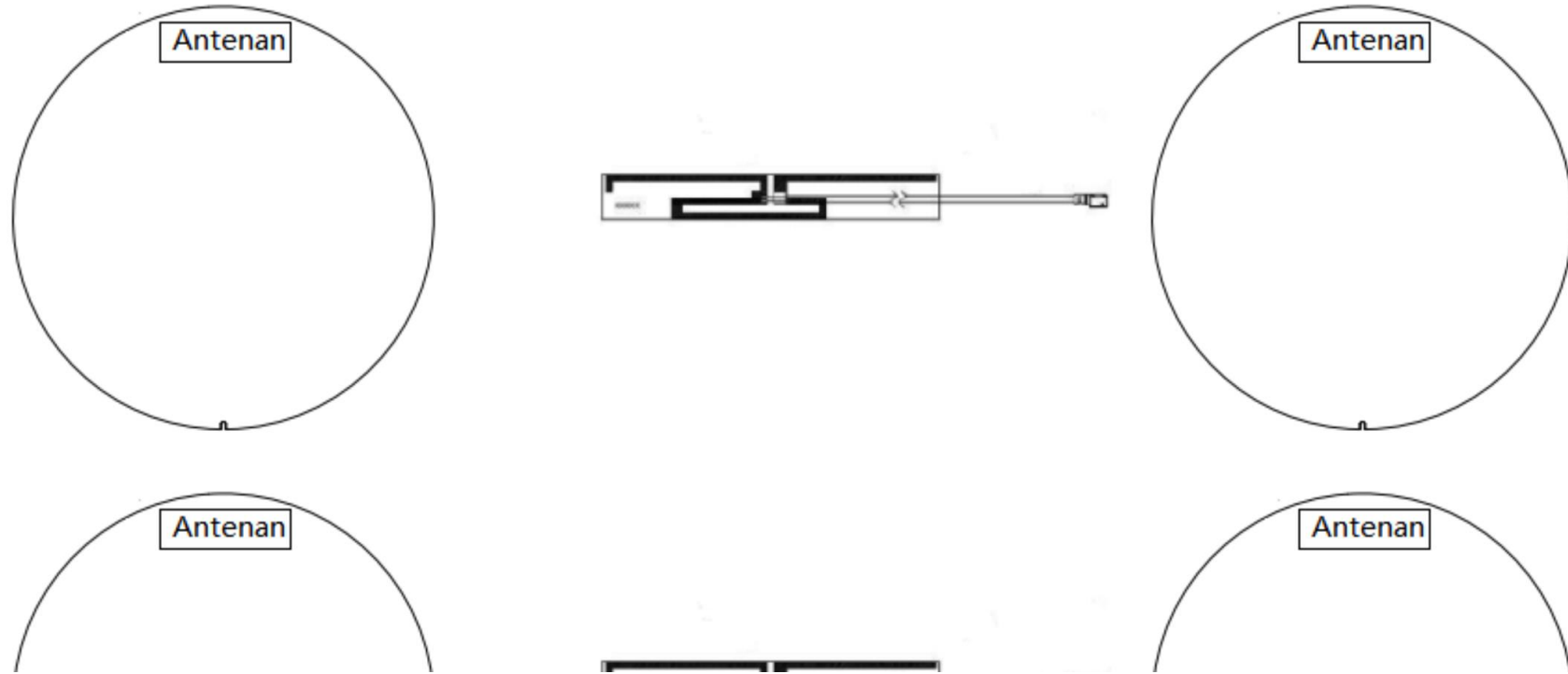
Outline

- Antenna Information
- Antenna Structure & Placement
- Return Loss
- Radiation Pattern
- Peak Gain & Efficiency

Antenna Infomation

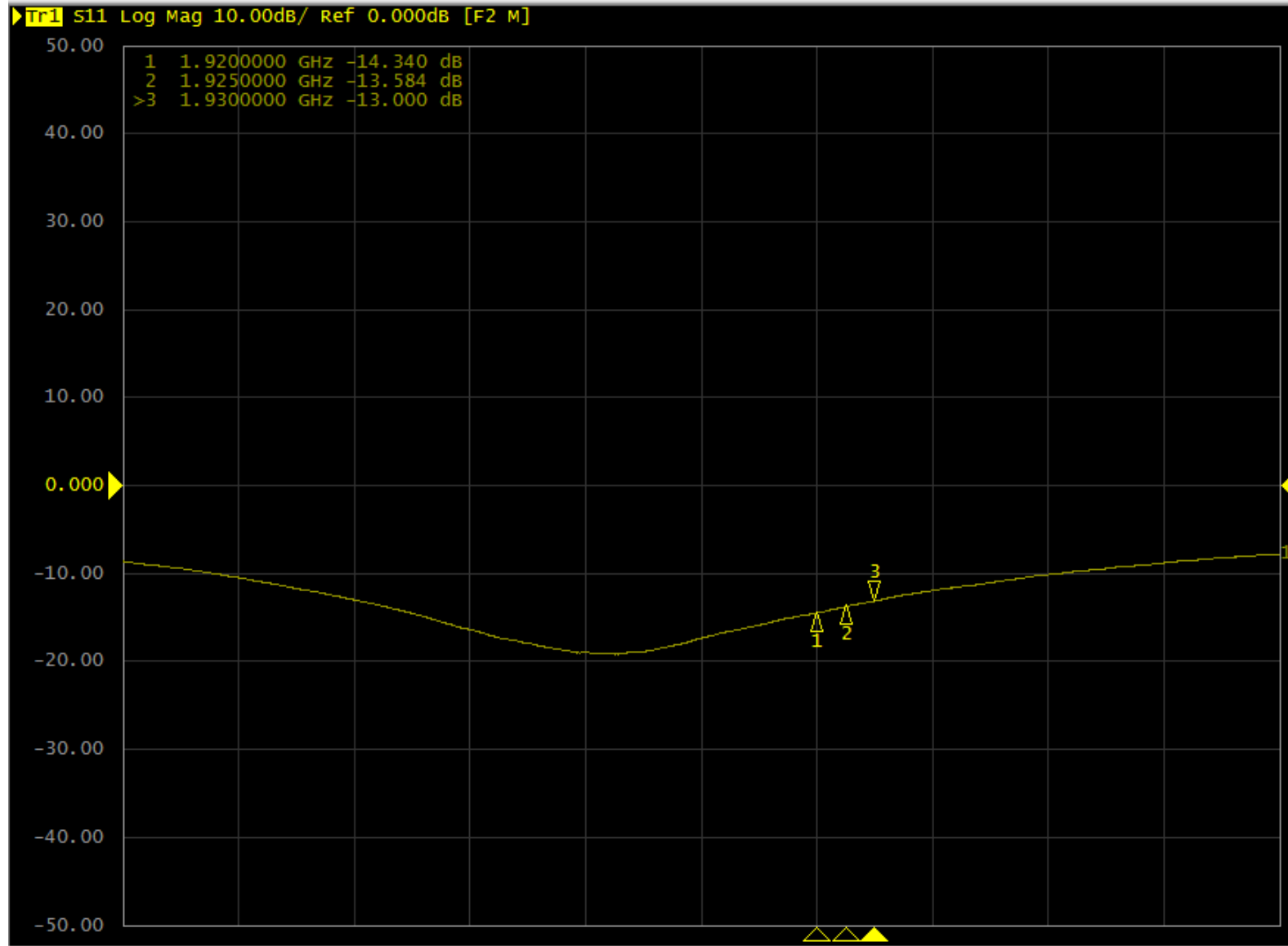
Item	Description
Model number	SSGB5R0-29_Antenna
Part number	617211ZL
Application	DECT
Antenna Type	PIFA
Manufacturer	SerComm Corporation
Address	8F, No. 3-1, YuanQu St. Taipei, Taiwan 115 R.O.C.
Operating Band	1920MHz ~ 1930MHz
Return Loss (dB)	Used for device > 10dB
Efficiency (%)	> 65%
Impedance (ohm)	50Ω
Cable Type	Φ1.13mm
Connector	I-pex

Antenna Structure & Placement

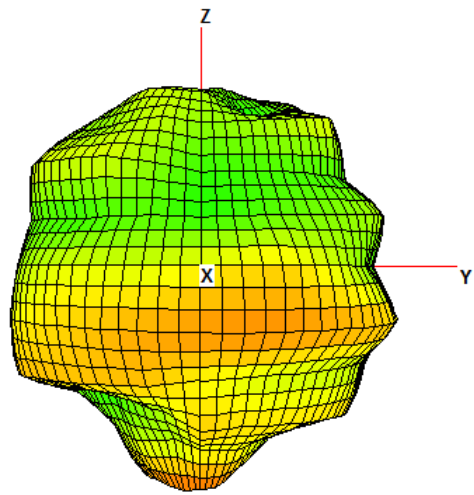
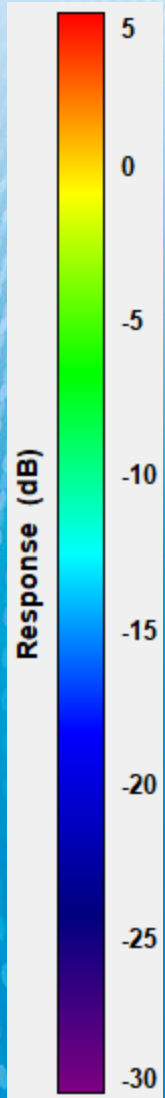


Ant No.	Operating Band	Type	Material	Feeding	Dimension
DECT Ant	1920MHz ~ 1930MHz	PIFA	Metal	Cable	55 x 8 x 0.2 mm ³

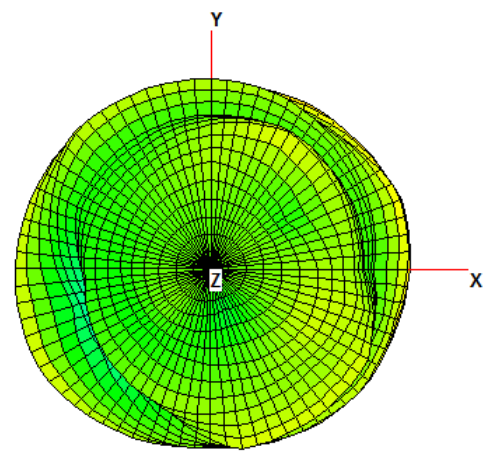
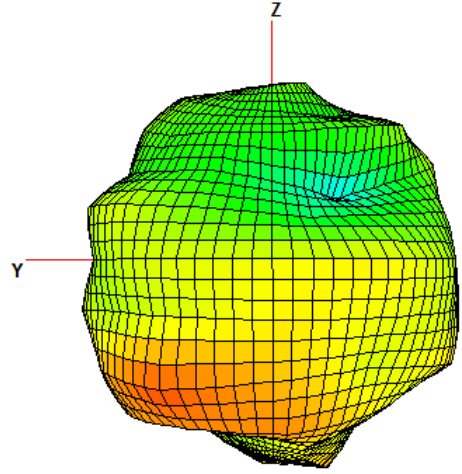
Return Loss



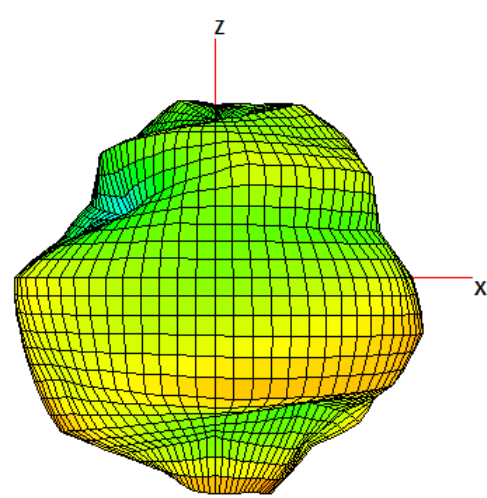
Radiation Pattern



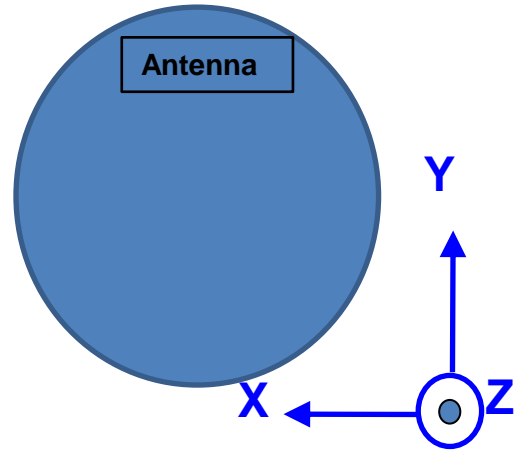
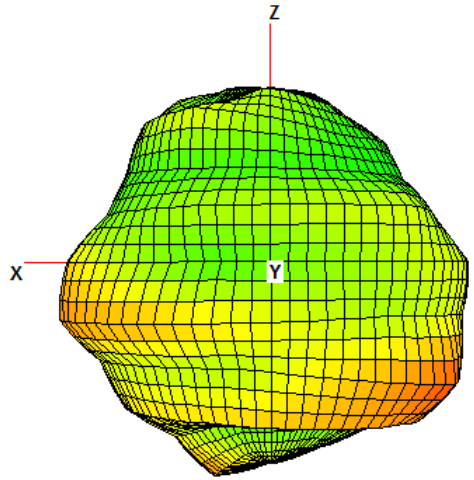
Z-Y plane



X-Y plane

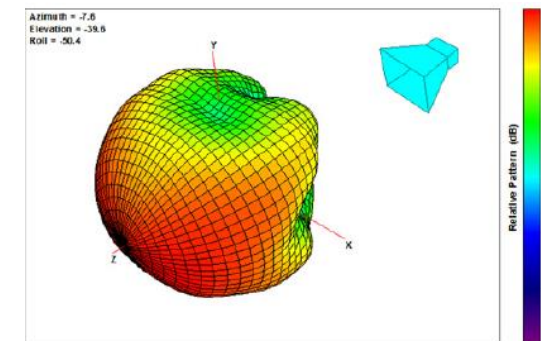
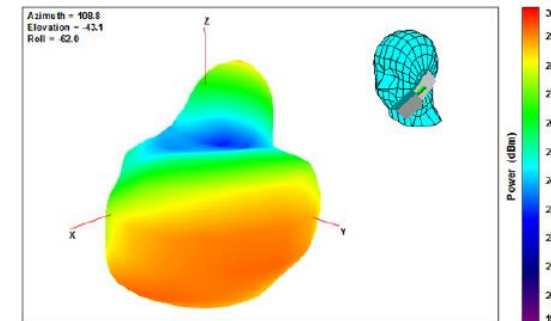
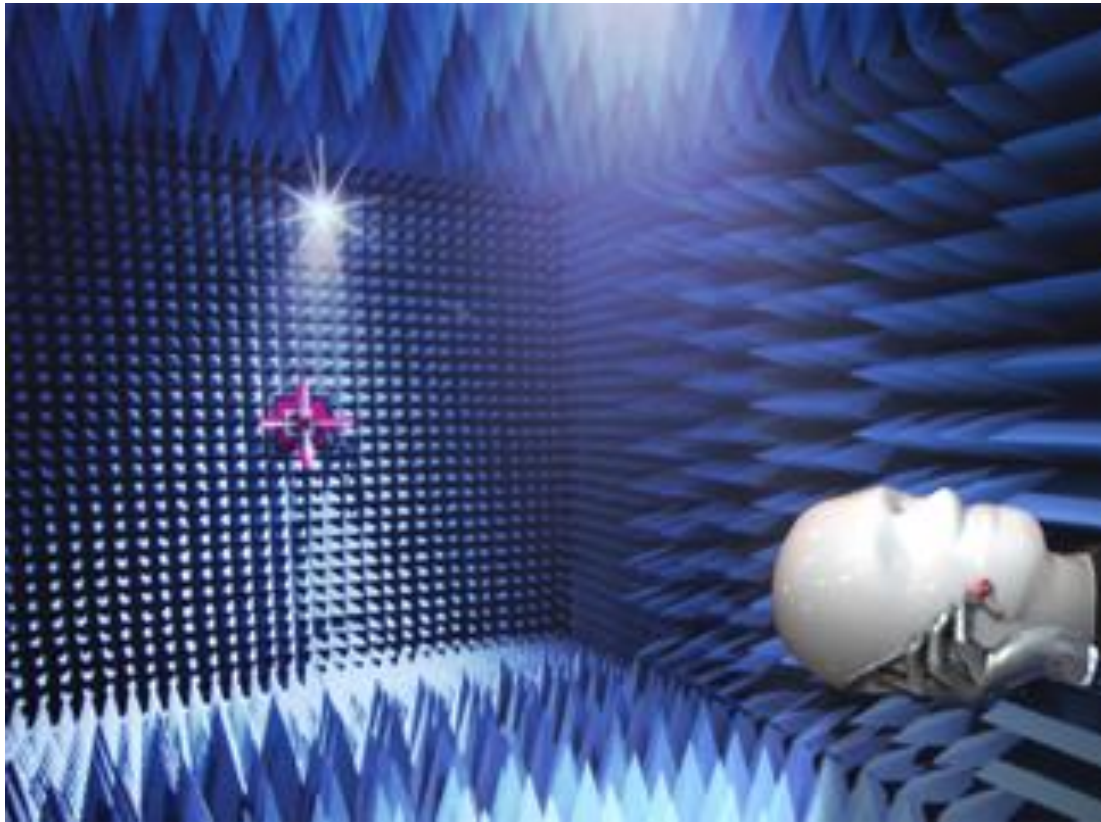


Z-X plane



Radiation Pattern

- ETS AMS-8500 antenna measurement system
- Interior dimensions : 7.32(L)×3.66(W)×3.66(H)m³
- Operating band : 700 MHz – 10 GHz
- Support passive test & active test
- Provide graphic data display



Peak Gain & Efficiency

DECT Antenna Performance		
Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
1920	65	3.4
1925	66	3.5
1930	66	3.6

Summary

- Antenna Performance is very good.

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