

**SERCOM**

**ADT / SSCO5R0-29**  
**Internal Antenna Data Sheet**

Mar. 21, 2023

# Outline

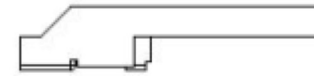
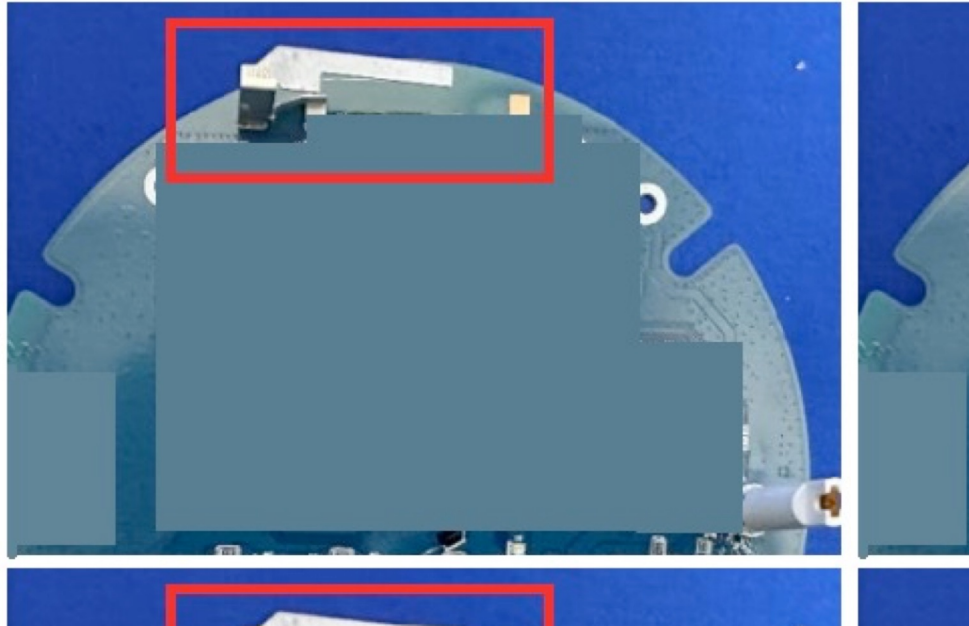
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- Antenna Information
- Antenna Structure & Placement
- Return Loss
- Radiation Pattern
- Peak Gain & Efficiency

# Antenna Information

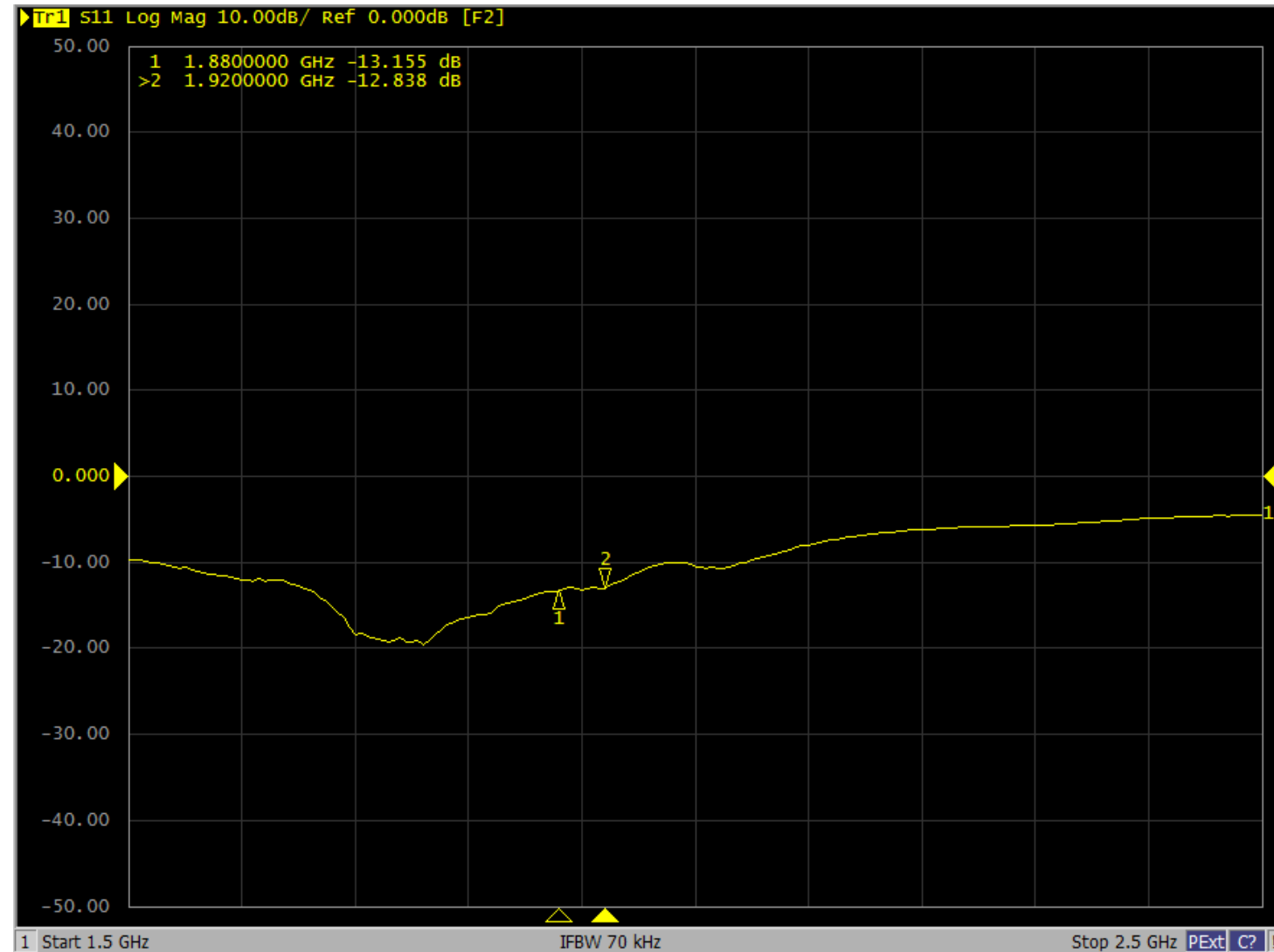
Item	Description
Model number	SD-CO09_Antenna
Part number	617211ZP
Application	DECT
Antenna Type	PIFA
Manufacturer	SerComm Corporation
Address	8F, No. 3-1, YuanQu St. Taipei, Taiwan 115 R.O.C.
Operating Band	1850 ~ 1950 MHz
Return Loss (dB)	Used for device > 10dB
Efficiency (%)	> 60%
Impedance (ohm)	50Ω
Cable Type	NA
Connector	NA

# Antenna Structure & Placement

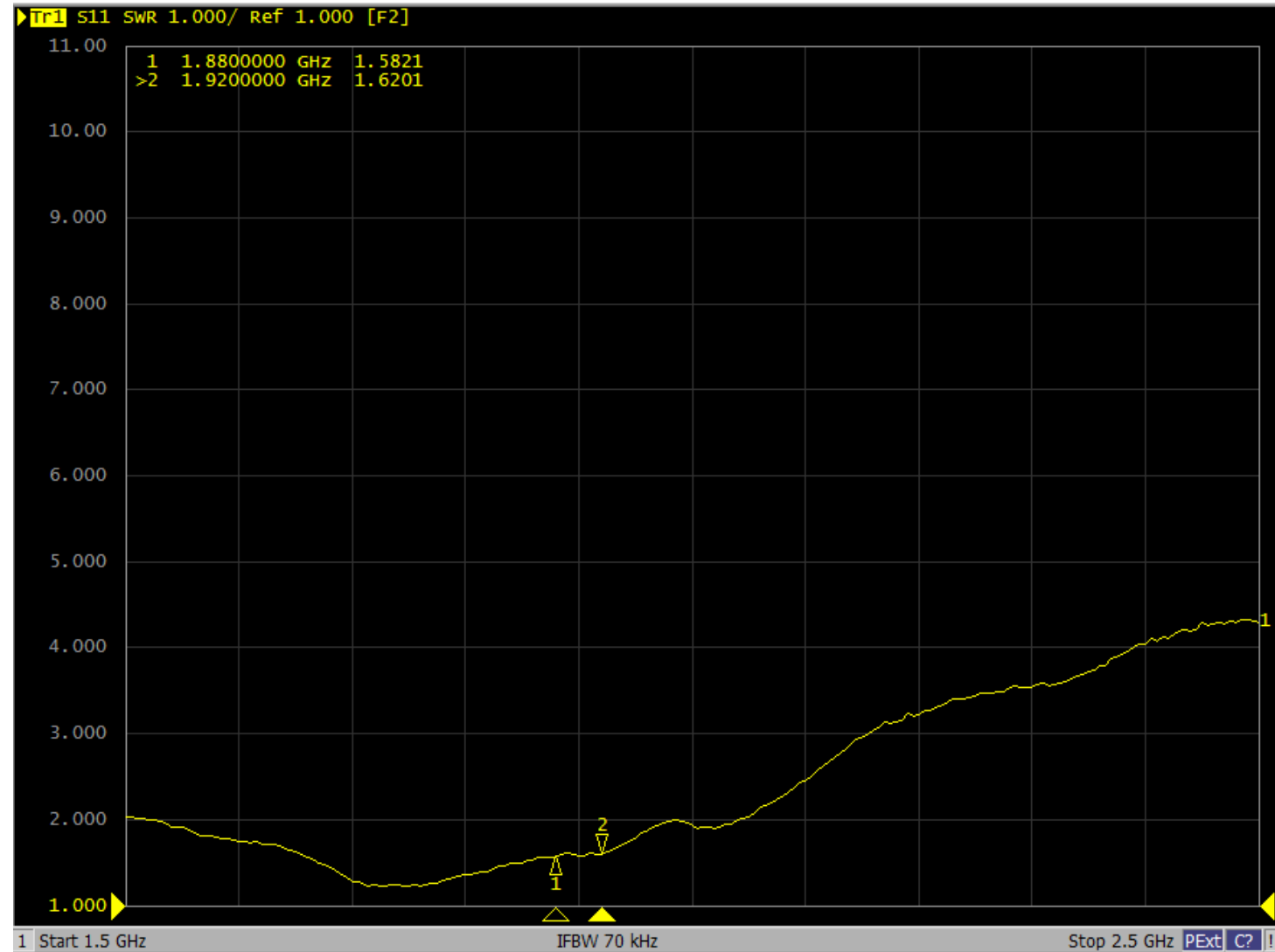


Ant	Operating Band	Type	Material	Feeding	Dimension
DECT	1850 ~ 1950 MHz	PIFA	Metal	Trace	31 x 7 x 13.5 mm <sup>3</sup>

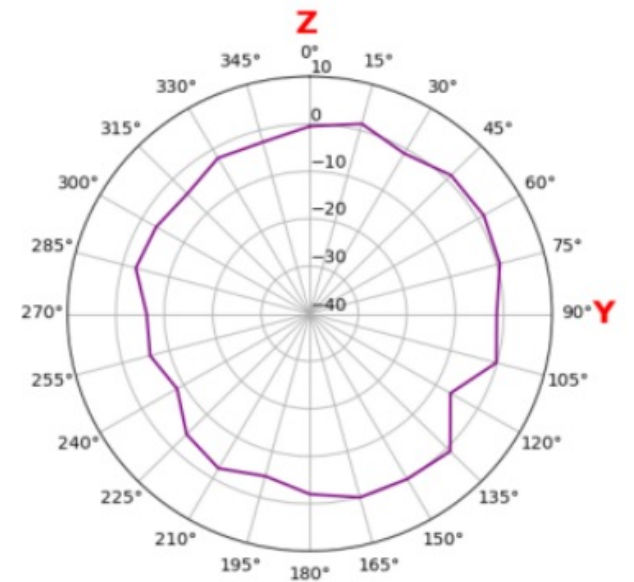
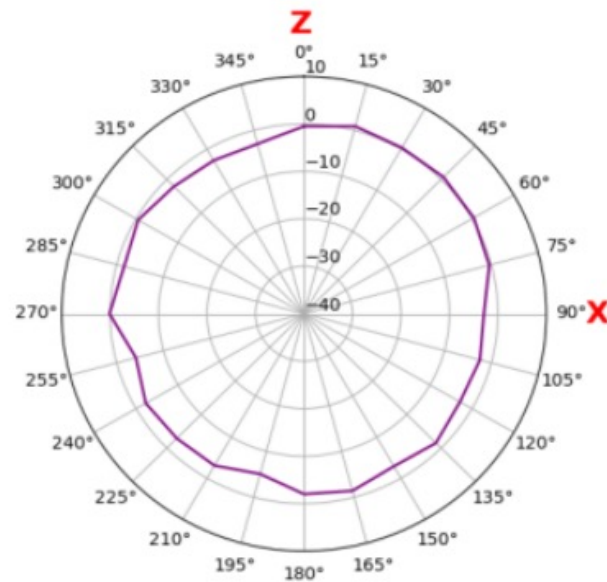
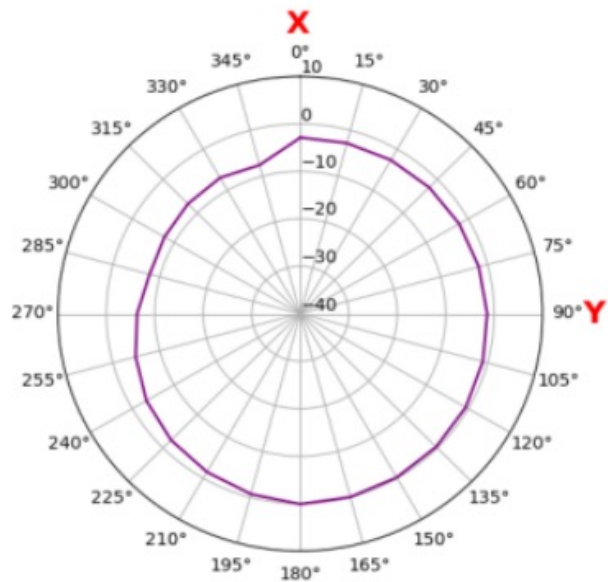
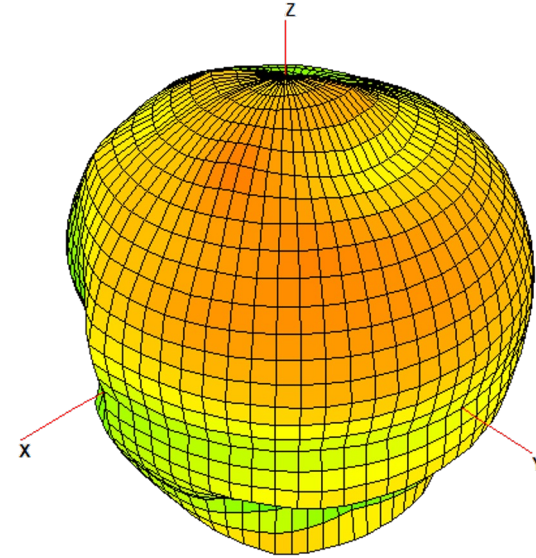
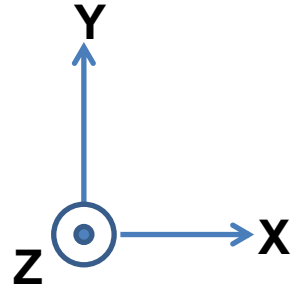
# Return Loss



# Return Loss



# Radiation Pattern



# Peak Gain & Efficiency

Frequency (MHz)	DECT Antenna	
	Efficiency (%)	Peak Gain (dBi)
1850	70.36	2.09
1880	71.41	2.18
1900	71.22	2.48
1920	74.13	2.42
1950	70.69	2.19



# Summary

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- Antenna Performance is very good.

**SERCOMM**

[www.sercomm.com](http://www.sercomm.com)