

SERCOM

**ADT /
SSS5R0-29 & SSSX5R0-29
Internal Antenna Data Sheet**

Mar. 03, 2023

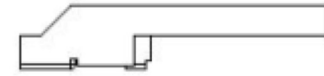
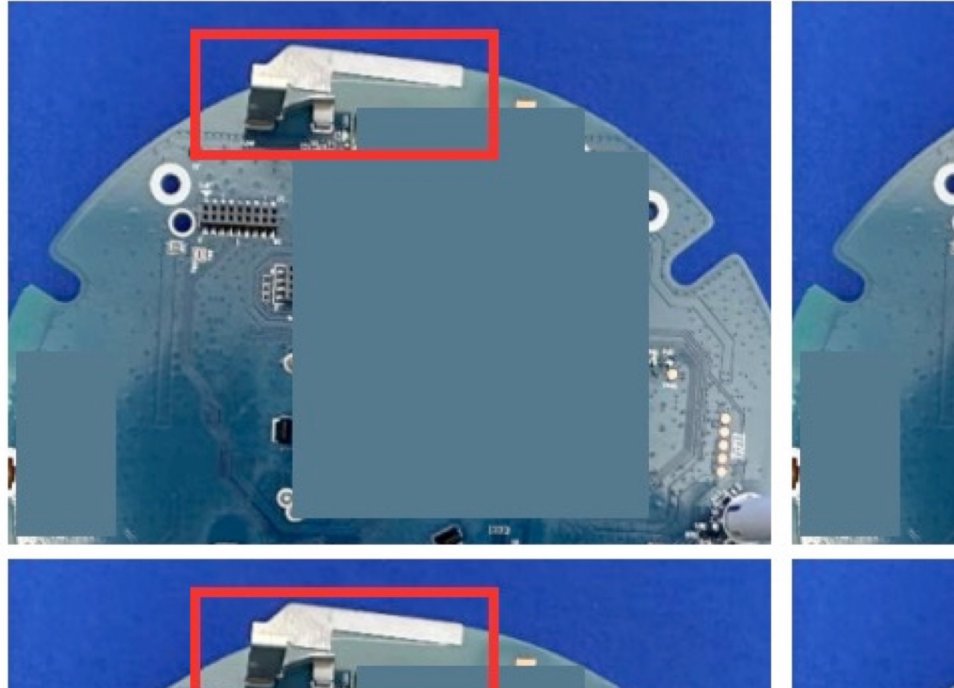
Outline

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

Antenna Information

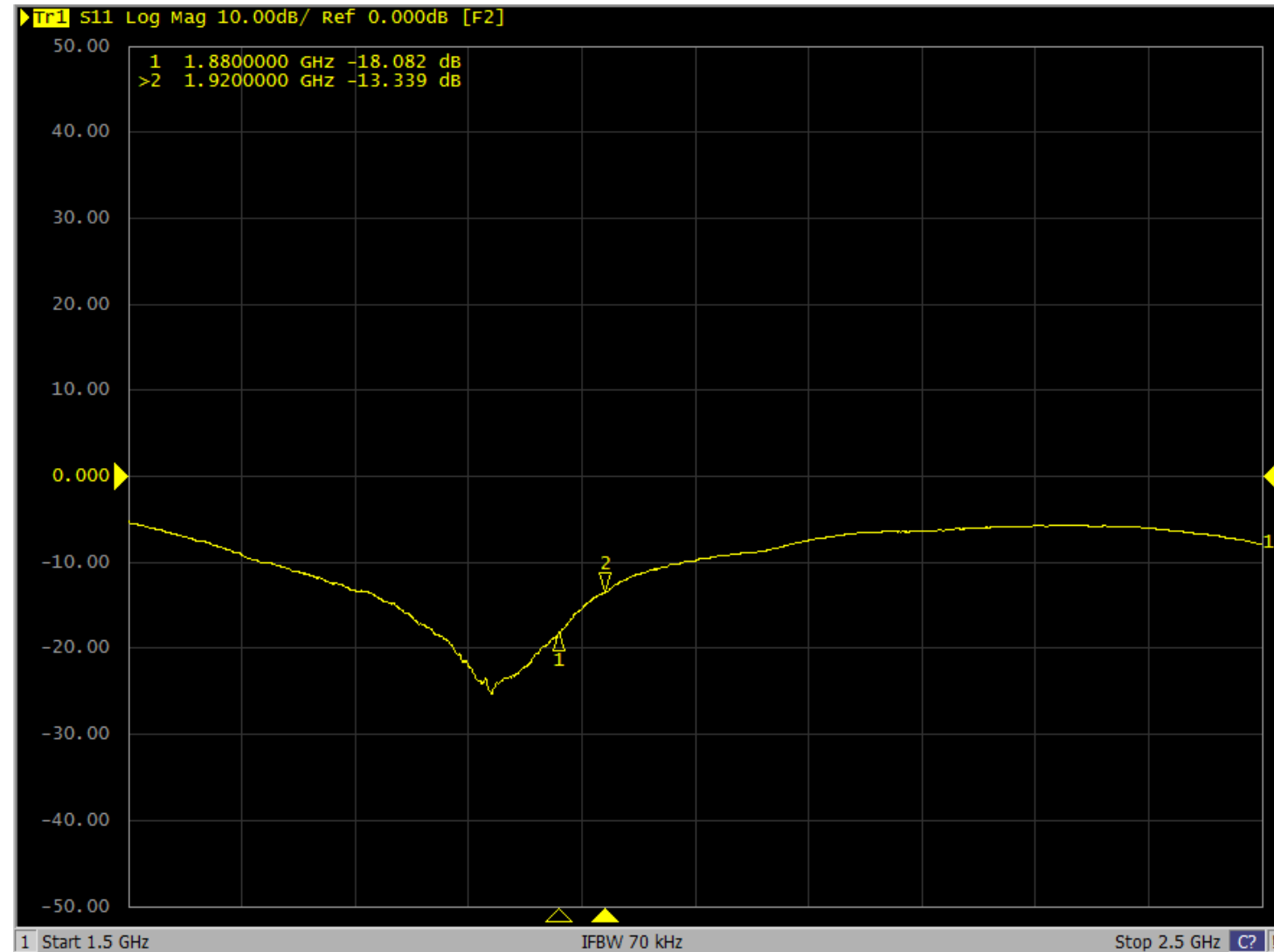
Item	Description
Model number	SD-SHC09_Antenna
Part number	617211ZP
Application	DECT
Antenna Type	PIFA
Manufacturer	SerComm Corporation
Address	8F, No. 3-1, YuanQu St. Taipei, Taiwan 115 R.O.C.
Operating Band	1850 ~ 1950 MHz
Return Loss (dB)	Used for device > 10dB
Efficiency (%)	> 60%
Impedance (ohm)	50Ω
Cable Type	NA
Connector	NA

Antenna Structure & Placement

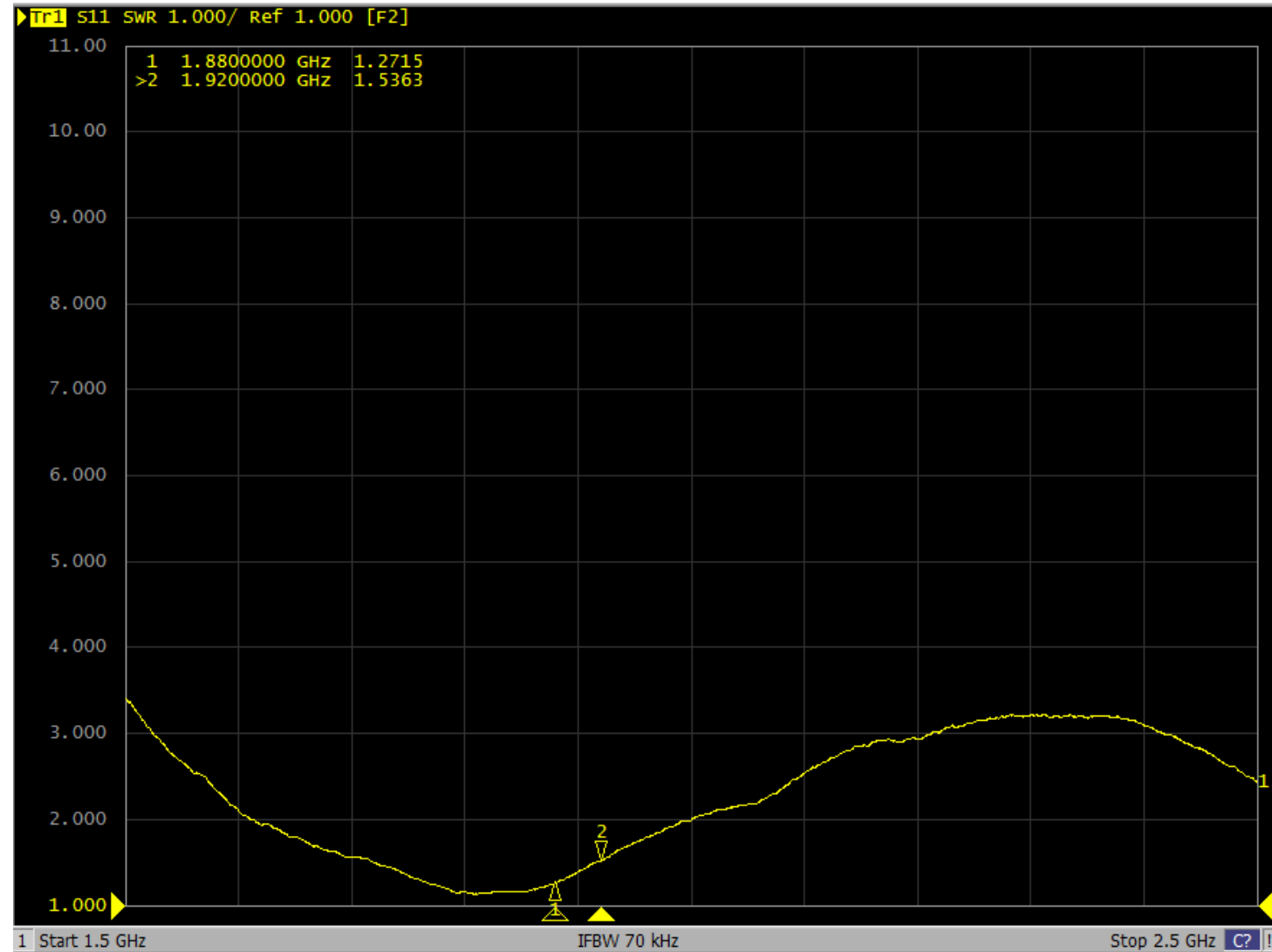


Ant	Operating Band	Type	Material	Feeding	Dimension
DECT	1850 ~ 1950 MHz	PIFA	Metal	Trace	31 x 7 x 13.5 mm ³

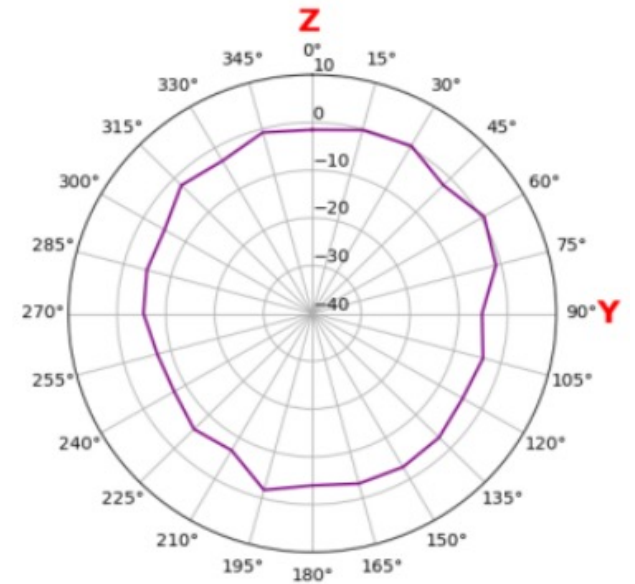
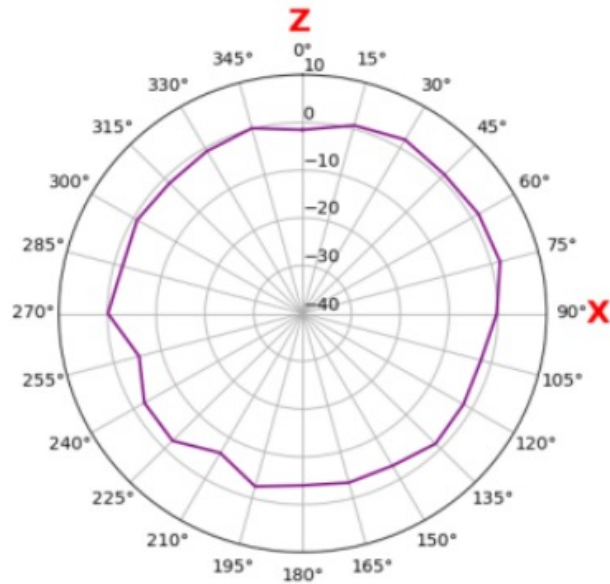
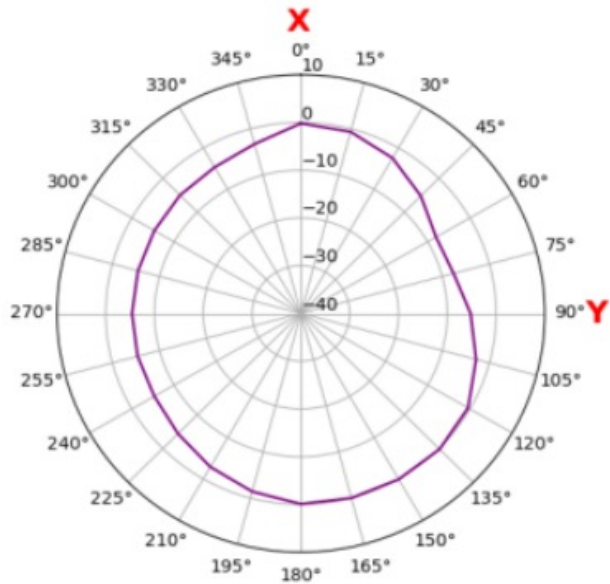
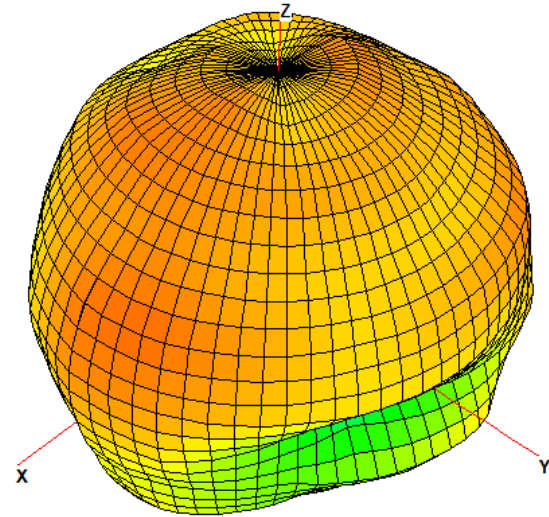
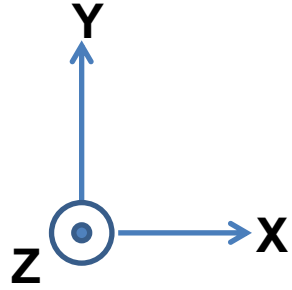
Return Loss



Return Loss



Radiation Pattern



Peak Gain & Efficiency

Frequency (MHz)	DECT Antenna	
	Efficiency (%)	Peak Gain (dBi)
1850	75.22	2.23
1880	74.52	2.27
1900	73.43	2.36
1920	72.79	2.65
1950	72.69	2.56

Summary

- Antenna Performance is very good.

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