

Antenna datasheet

Specification For Approval

Application	Wireless System
Model Name	EM-27H – ANT
Part No	
Issued Date	2024. 03. 18

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2. Specification

2.1. Electrical Specification

Item	Spec	Remarks
Center Frequency	27MHz	
Frequency Range	26MHz – 28MHz	
V.S.W.R	Less Than 1.5	
Peak Gain(dBi)	0.7dBi (Max)	
Radiation pattern	Omni-directional	
Polarization	Linear Vertical	
Impedance	Nominal 50Ω	

2.2. Mechanical Specification

Item	Spec	Remarks
Dimensions(L)	18.4 mm x 17Turns	mm(Drawing reference)
Connector	Soldering	
Color	Black	
Operating Temperature	-45$^{\circ}$C ~ +85$^{\circ}$C	
Weight	1g \pm 0.2g	

2.3. Major Materials of Parts

Item	Type	Remarks
Element	SWC	
Plate	Cu	
Tube	POLYOLEFIN	Black

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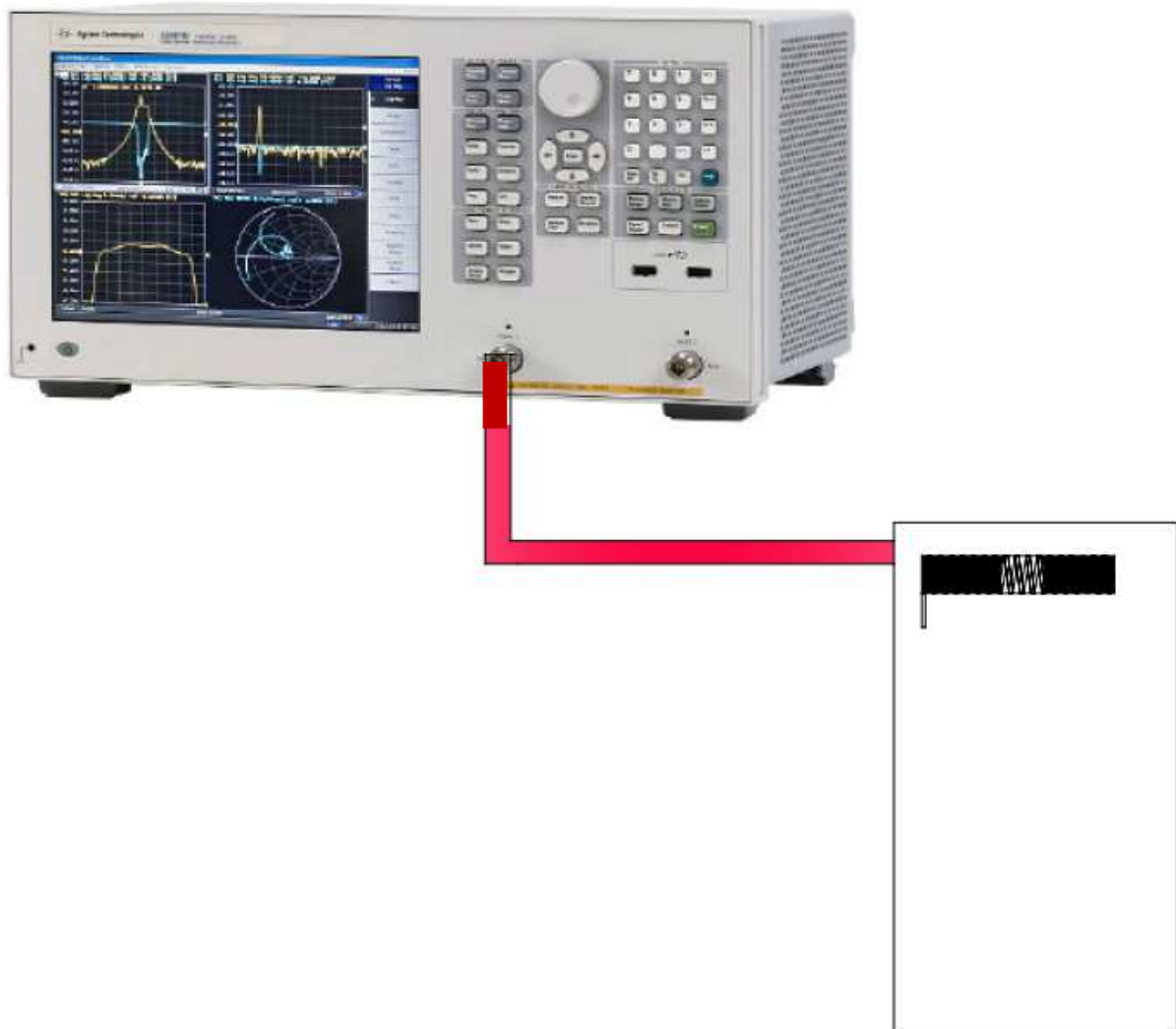
3. V.S.W.R Test

3.1.1 Test method

① Network Analyzer Spec

Equipment	Model	Specification
Network Analyzer	HP8753ES	· Freq. Range : 300KHz ~ 6GHz
Calibration Kit	HP85032B	· DC ~ 6GHz (SMA-Type)

② Network Analyzer test method

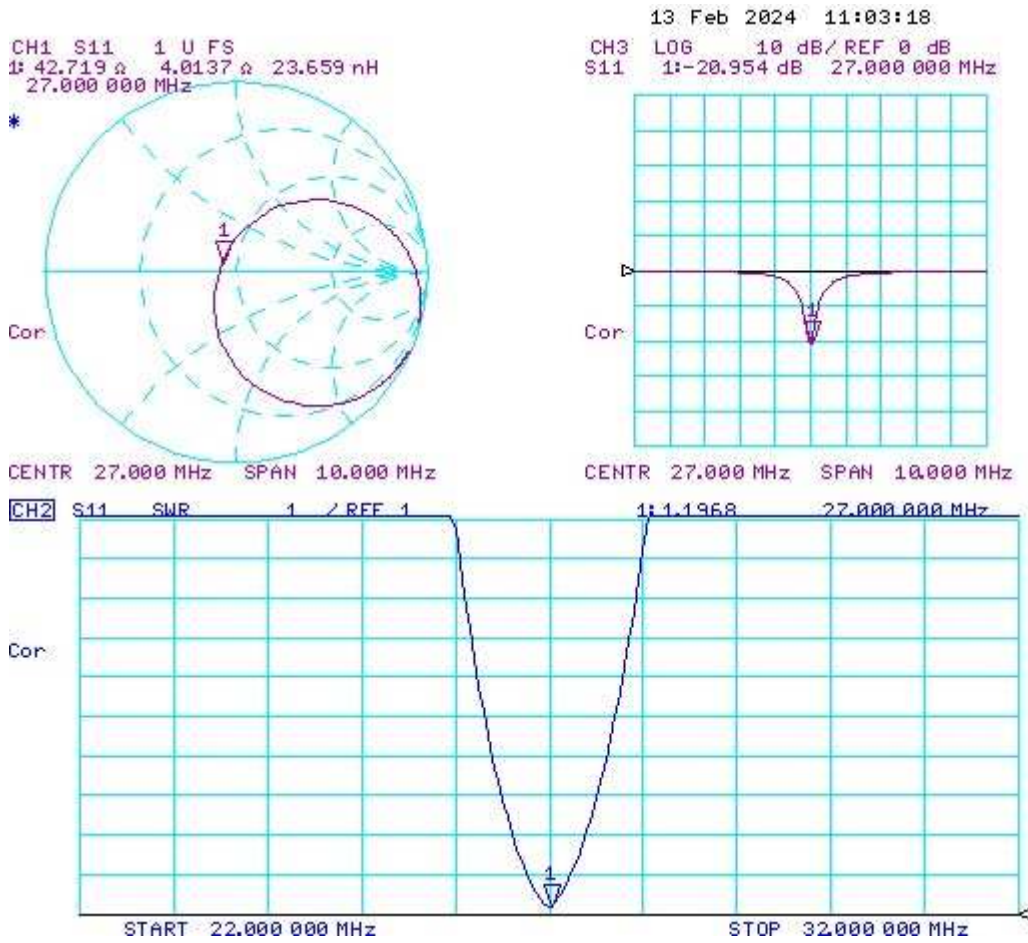


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3. Electrical Specification

3.1.2 V.S.W.R

DATA



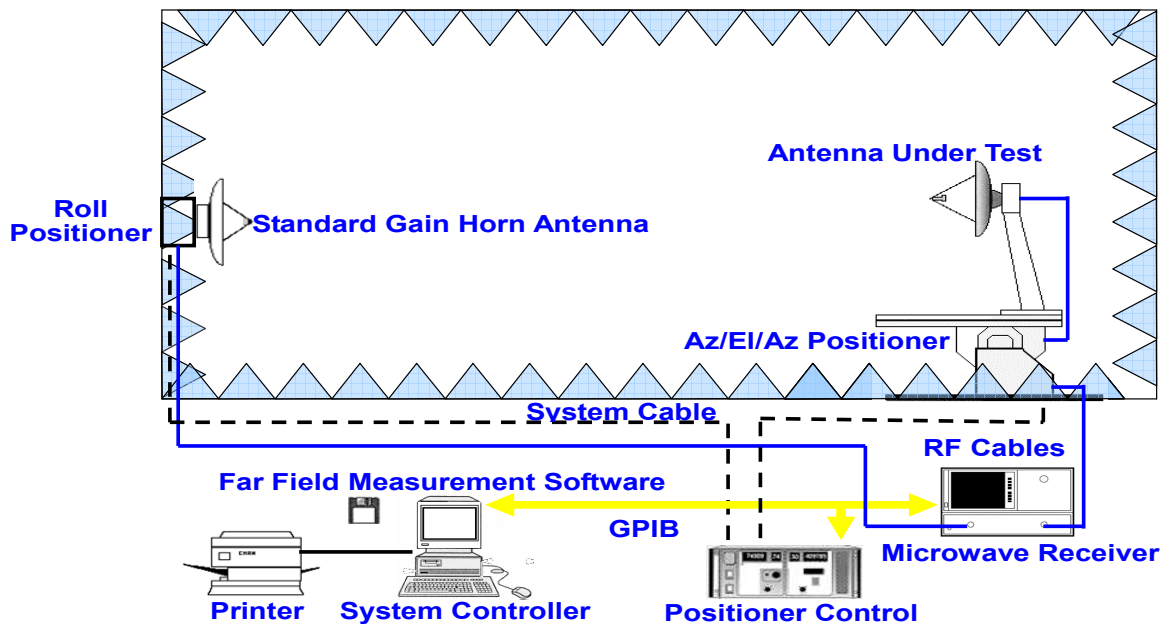
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3.2.1 Gain & Beam Pattern Test

① Chamber Spec

Section	Specification
Chamber Size	6(L)m X 3(W)m X 3(H)m
Frequency Range	400MHz – 6GHz (Far Field)
Quiet Zone	1m X 1 m @ 1GHz
Type	Rectangular
Antenna weight	< 50 kg

② Chamber Test method

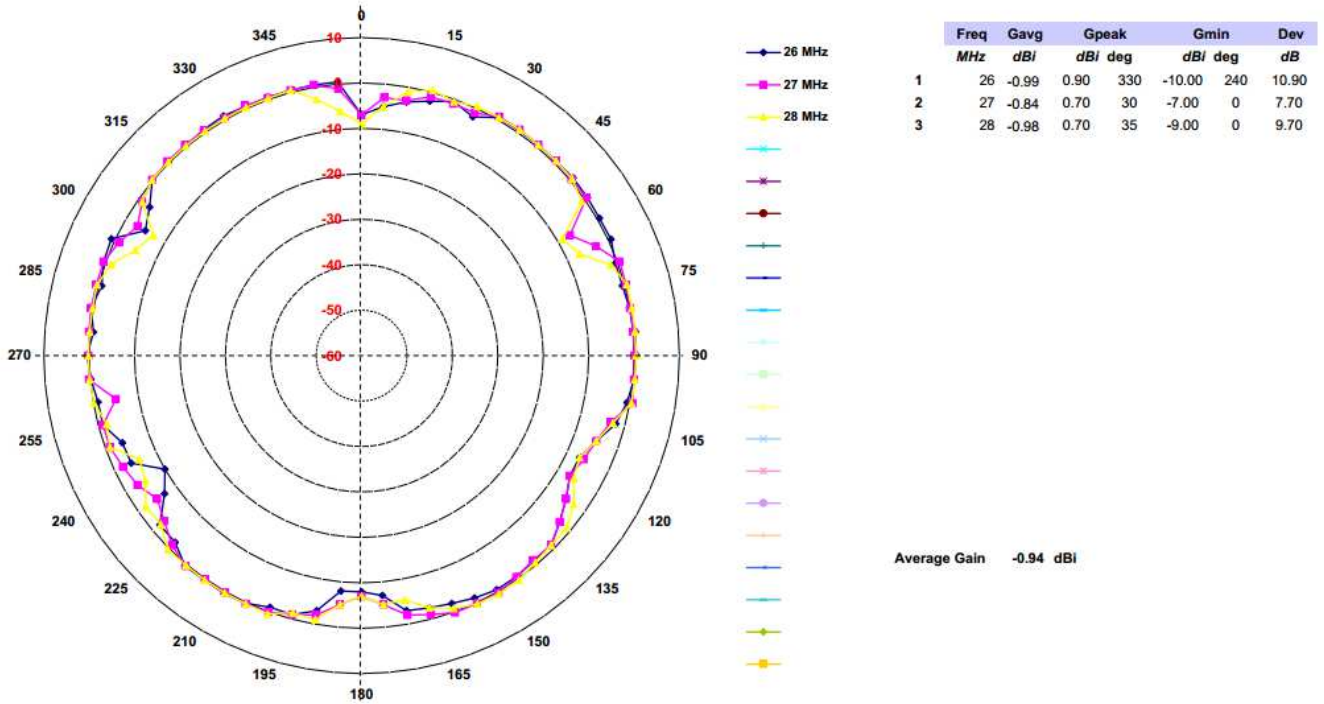


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3.2.2 Gain & Beam Pattern

2-D Radiation Pattern

EUT	APA-2000	Antenna Type	Coil Antenna	Comment	Antenna Matching Circuit				
EUT Version		Antenna Number			Matching Type				
Test Date	Mon18/03/2024	Rotating Axis	Phi		Z1	Z2	Z3	Z4	Z5
Tester		Polarization	Phi						



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4. Drawing

