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a YAGEO company

TECHNICAL DATA SHEET

Series: Stick Antenna

Description:

433MHz Swivel Stick Dipole – SMA-M

PART NUMBER: W1076



Features:

- Frequency 430-435MHz
- Gain -4dBi
- Length 108mm (straight)
- Connector SMA-Male
- IP40
- RoHS Compliant

Applications:

- 433MHz ISM band radios
- Indoor use
- Remote controls
- Surveillance, Monitoring
- Industry automation
- IoT

All dimensions are in mm / inches

Issue: 2044

RoHS COMPLIANT

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ELECTRICAL SPECIFICATIONS

Antenna Type	Dipole
Frequency	430-435MHz
Nominal Impedance	50 Ω
VSWR	1.5:1(MAX)
Radiation Pattern	Omni
Gain	-4dBi(Min)
Efficiency	15%(Min)
Polarization	Vertical
Power Withstanding	5W

MECHANICAL SPECIFICATIONS

Overall Length	108 mm
Weight	8.84 g
Antenna Color	Black
Connector type	SMA Male

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ +85° C
Storage Temperature	-40 ~ +85° C
Ingress Protection	IP40
RoHS Compliant	Yes

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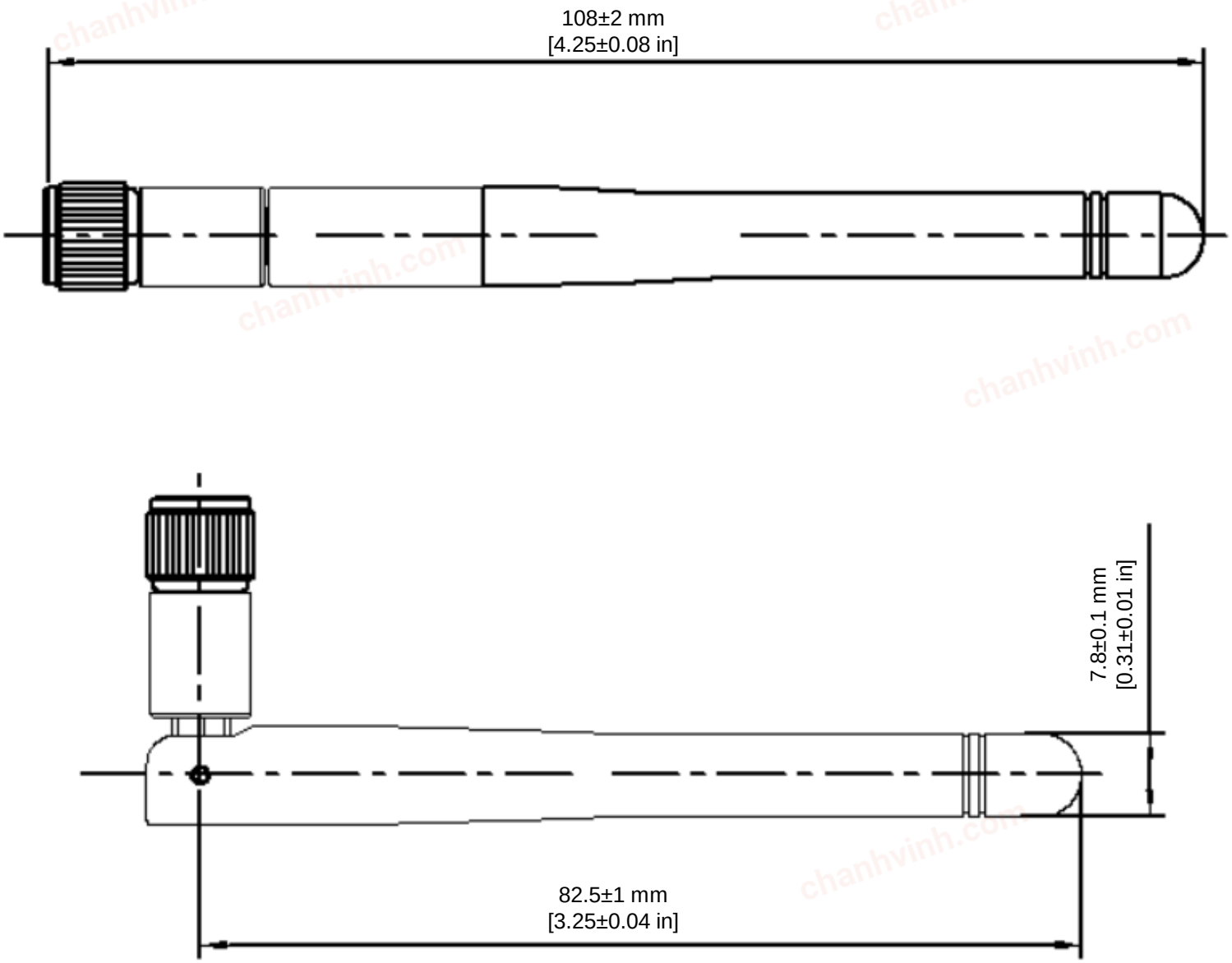
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MECHANICAL DRAWING



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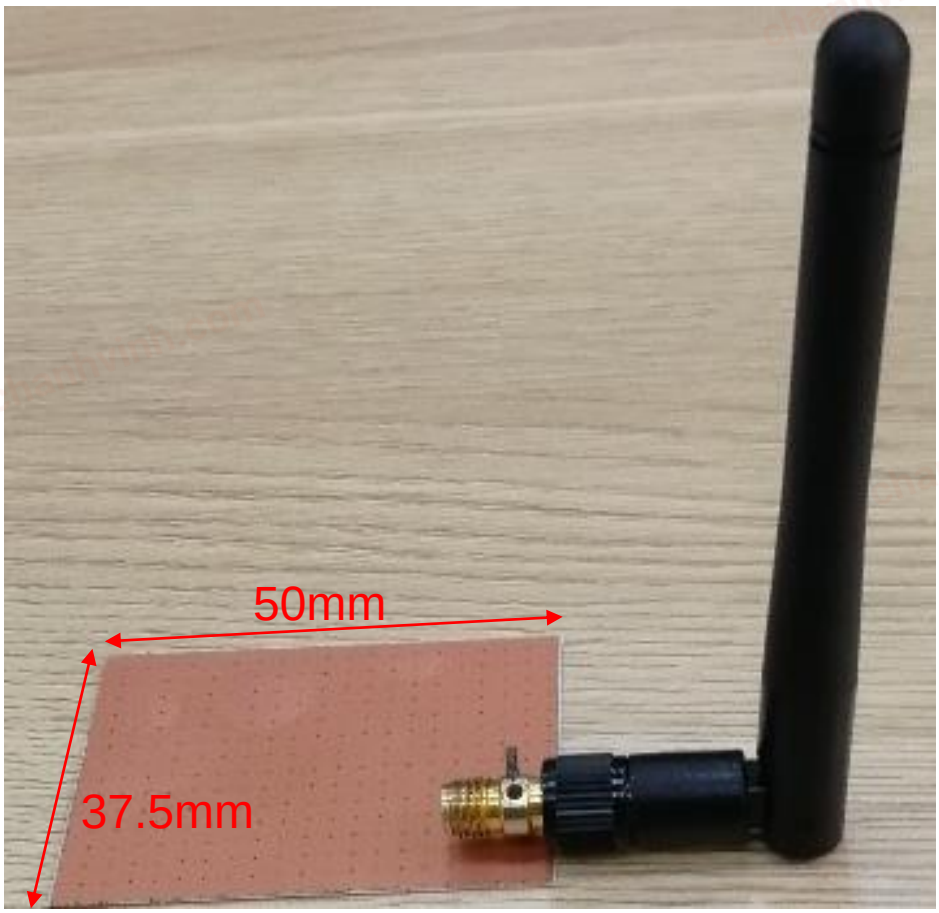
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TEST SETUP



Test with a 37.5mm*50mm ground plane in free space.

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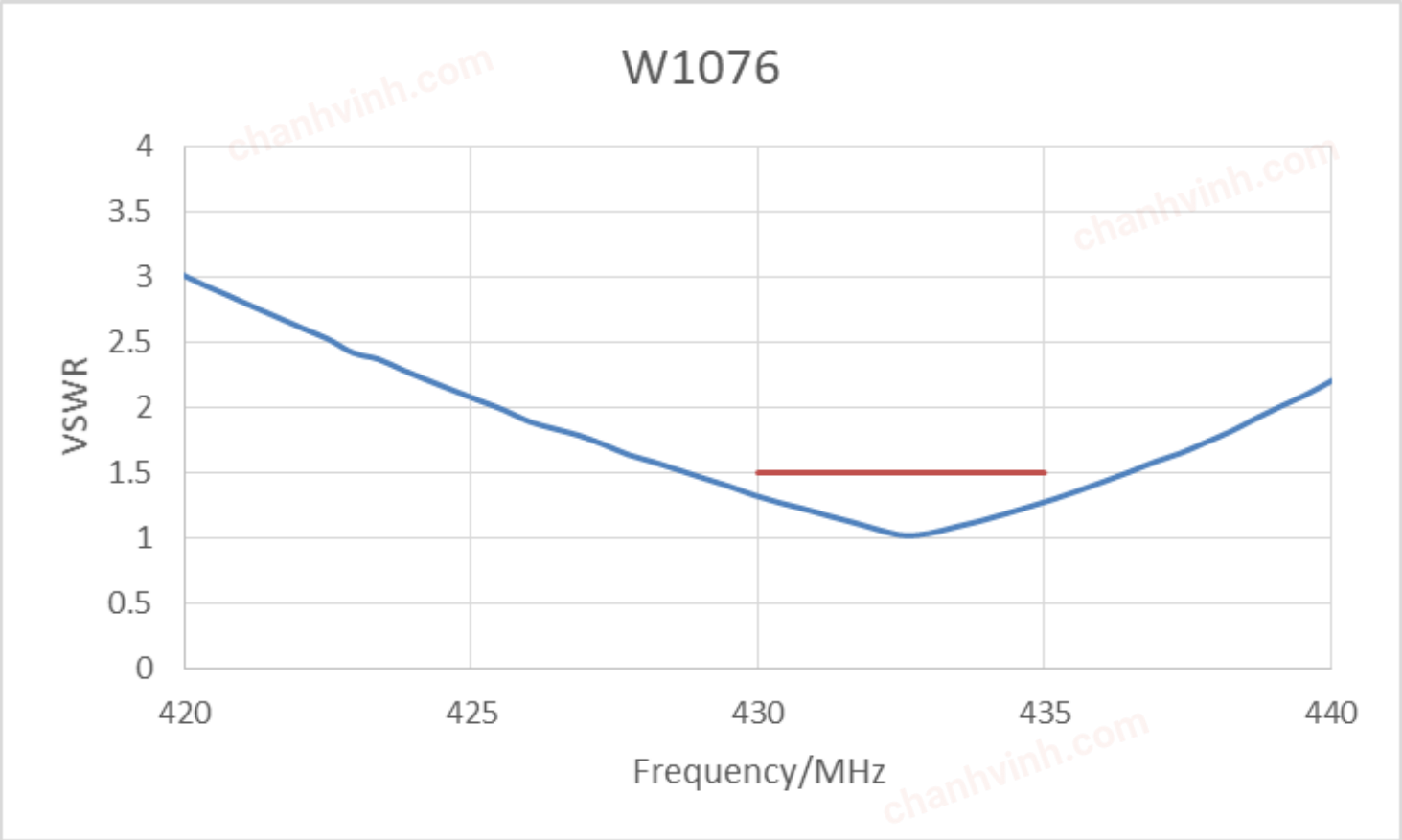
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CHARTS

VSWR vs Frequency



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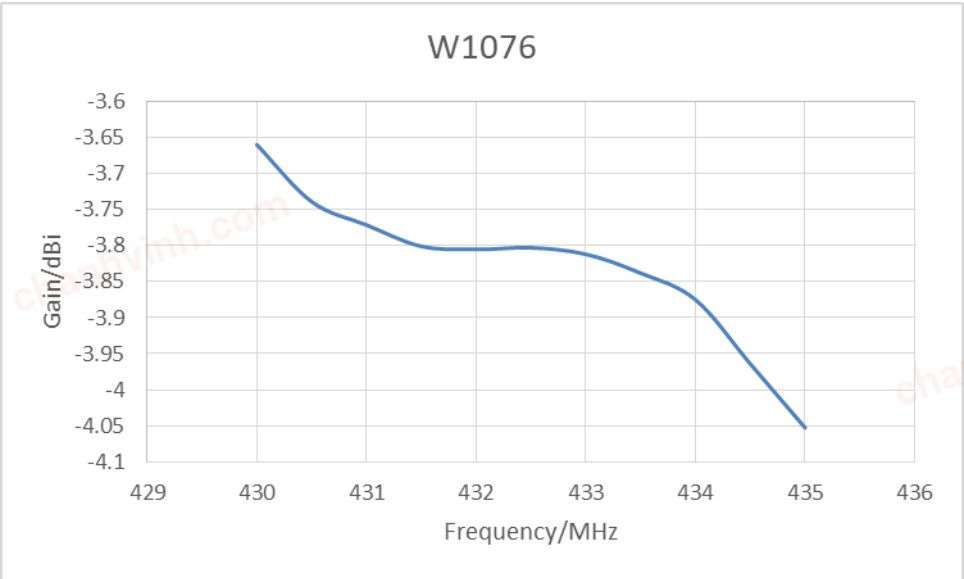
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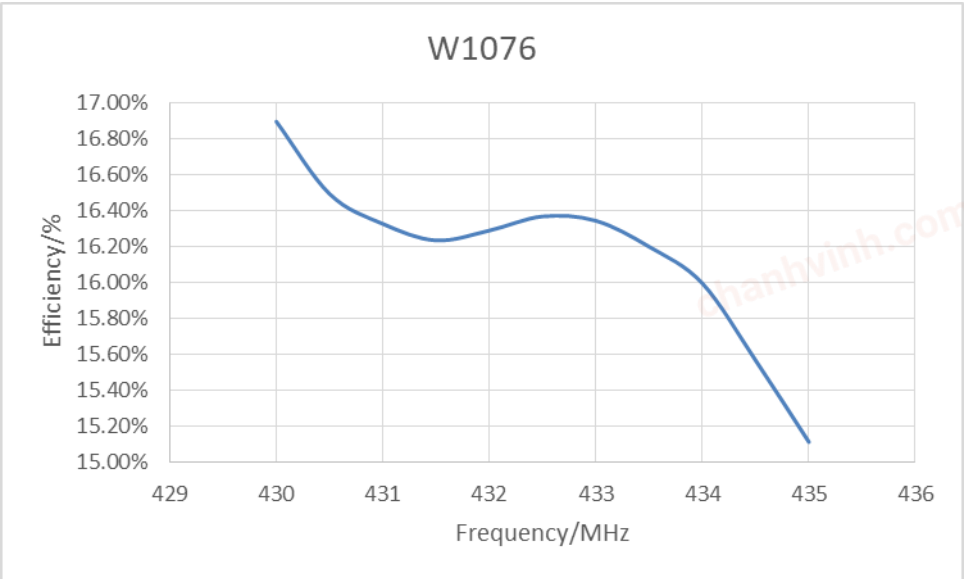
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CHARTS

Peak Gain



Radiation Efficiency



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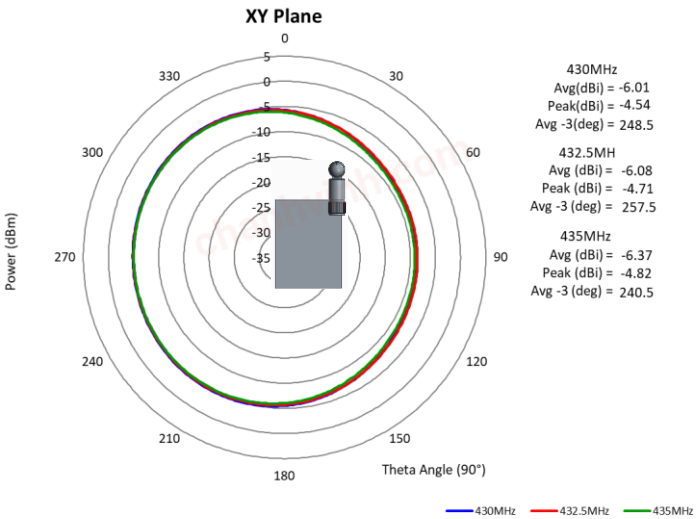
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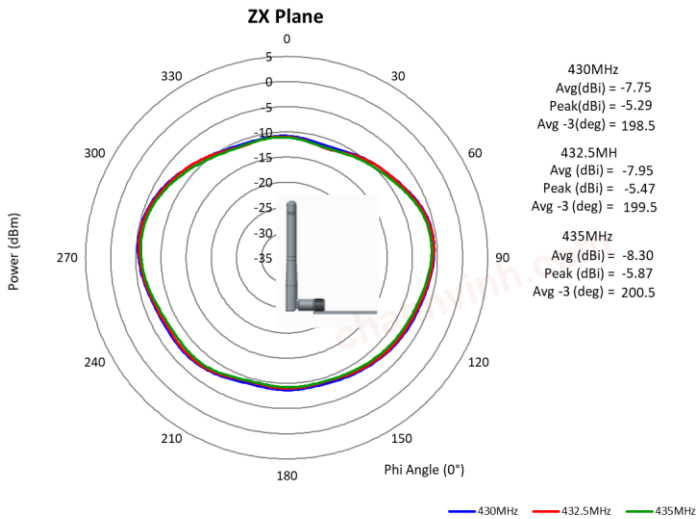
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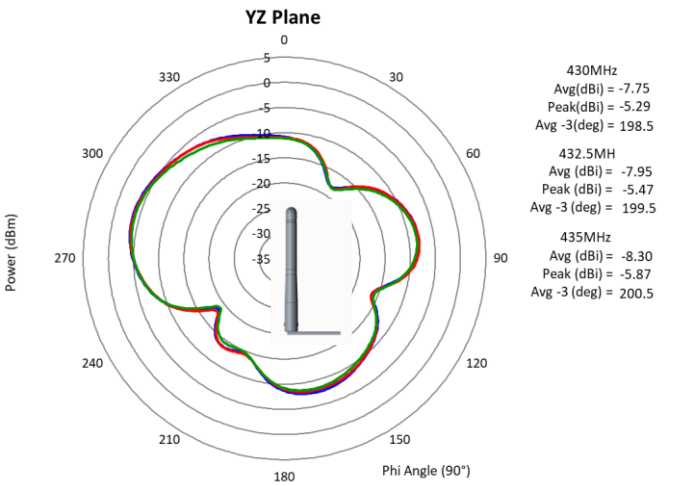
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CHARTS

Radiation Pattern 2D







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PACKAGING

20PCS / PE Bag, 600PCS / Box

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