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Pulse | LARSEN Antennas
A YAGEO Company

TECHNICAL DATA SHEET

Description: 698-960/1710-3800MHz Stick Antenna with RA SMA connector

Series: Stick Antenna

PART NUMBER: W1096X



Features:

- 4G/5G Stick Antenna
- Performance across the LTE frequency bands
- 698-960/1710-2690/3400-3800 MHz
- Up to 2 dBi Gain
- Right Angle SMA or RP SMA Male connector
- IP65

Applications:

- 4G / 5G Radios
- Router, Hub or Access point
- Small Base Station
- Femto Cell
- SOHO

All dimensions are in mm / inches

Issue: 2033

RoHS COMPLIANT

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This document covers all product variants of the following product family

Antennas	Connector
W1096	RA RP SMA Male
W1096RM	RA SMA Male

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ELECTRICAL SPECIFICATIONS

Antenna Type	Monopole antenna
Frequency	698-960/1710-2690/3400-3800 MHz
Nominal Impedance	50 Ω
VSWR(Max)	3.5:1 / 2:1 / 4:1
Radiation Pattern	Omni
Gain 698-960MHz	>-3 dBi
Gain 1710-2690MHz	>1.5 dBi
Gain 3400-3800MHz	>-0.5 dBi
Efficiency 698-960MHz	>30 %
Efficiency 1710-2690MHz	>60 %
Efficiency 3400-3800MHz	>45 %
Polarization	Linear
Power Withstanding	3 W

MECHANICAL SPECIFICATIONS

Overall Length	112±3mm
Weight	13g
Antenna Color / Material	Black
Connector type	W1096: Right Angle RP SMA Male, Silver Ni plating W1096RM: Right Angle SMA Male, Silver Ni plating

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 °C to +80 °C
Storage Temperature	-40 °C to +80 °C
Ingress Protection	IP65
RoHS Compliant	Yes

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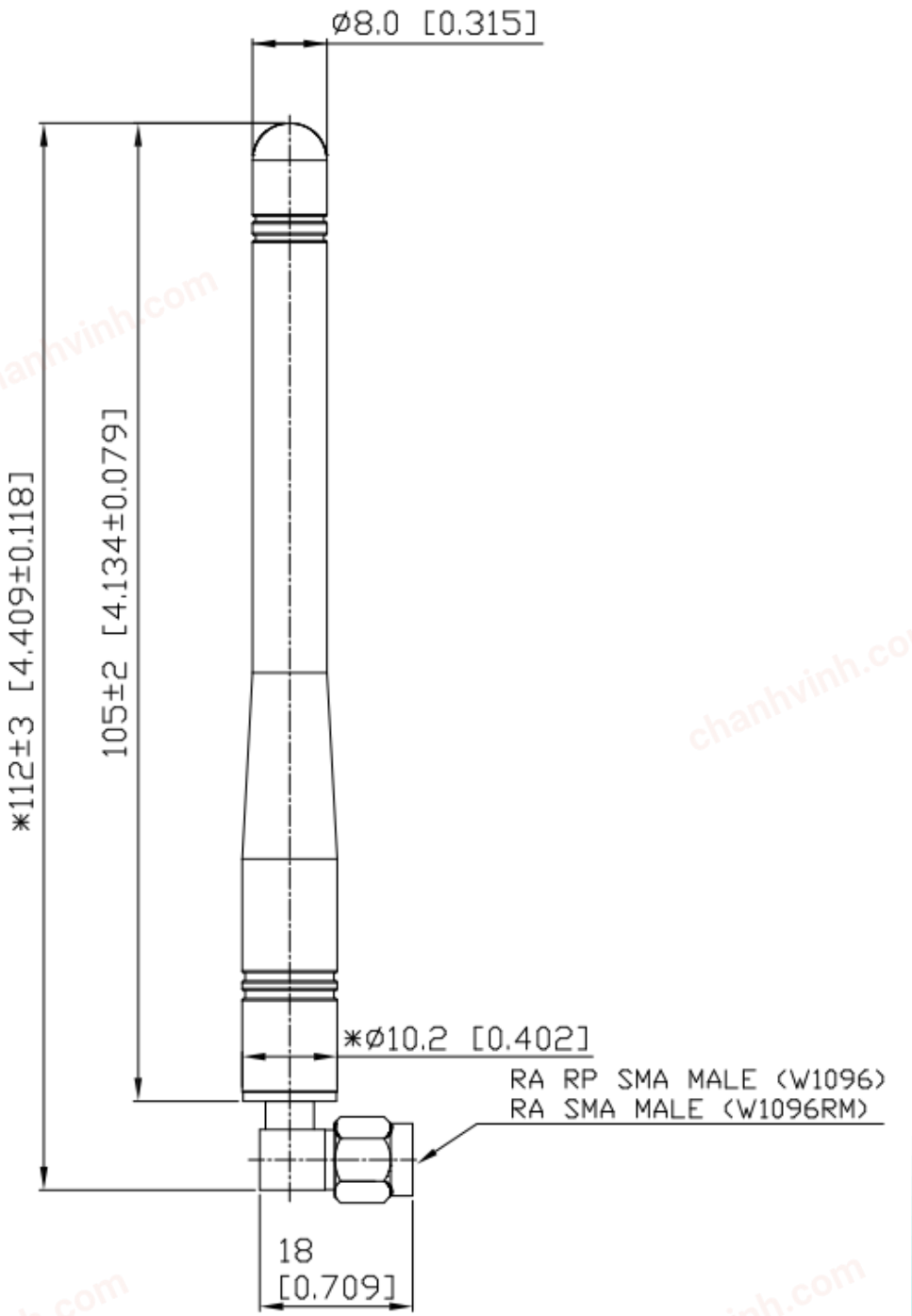
MECHANICAL DRAWING



Issue: 2033

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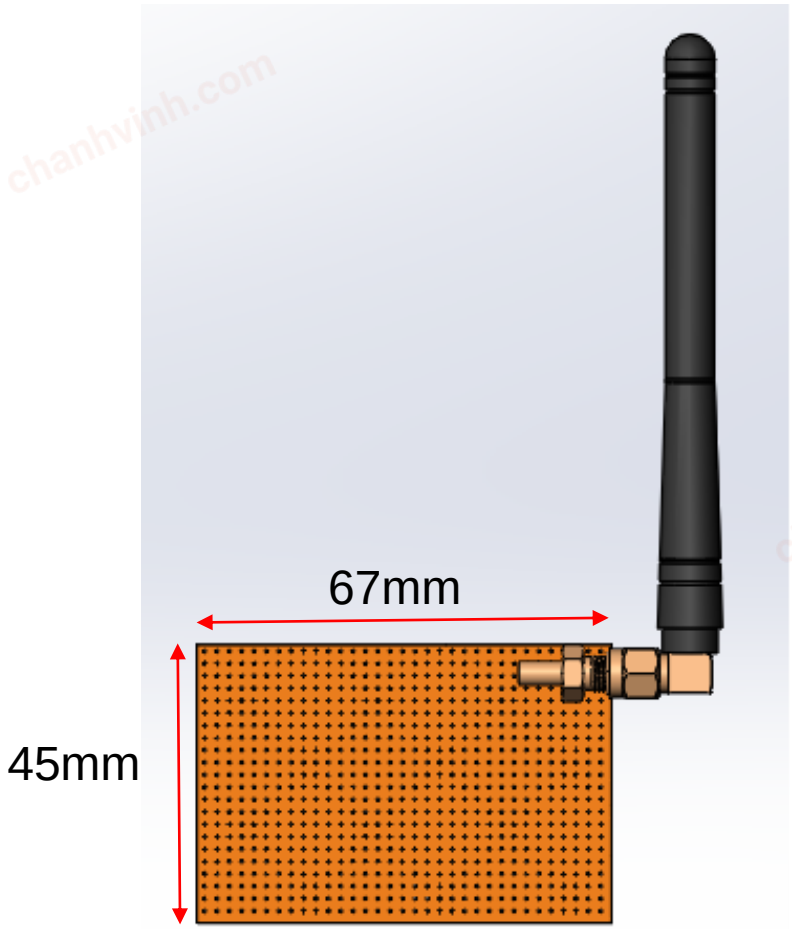
TEST SETUP

ground plane



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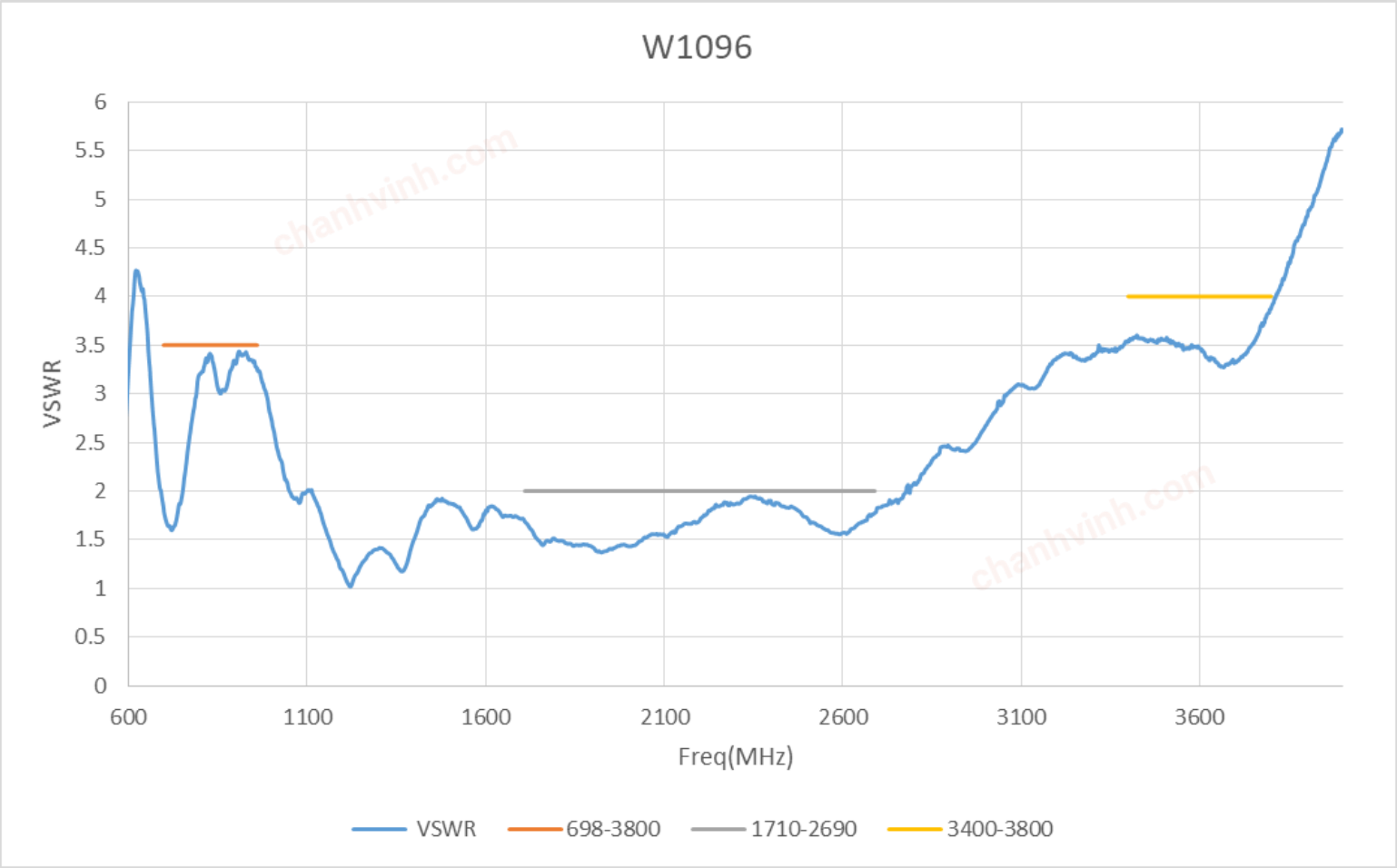
TEST SETUP

VSWR:



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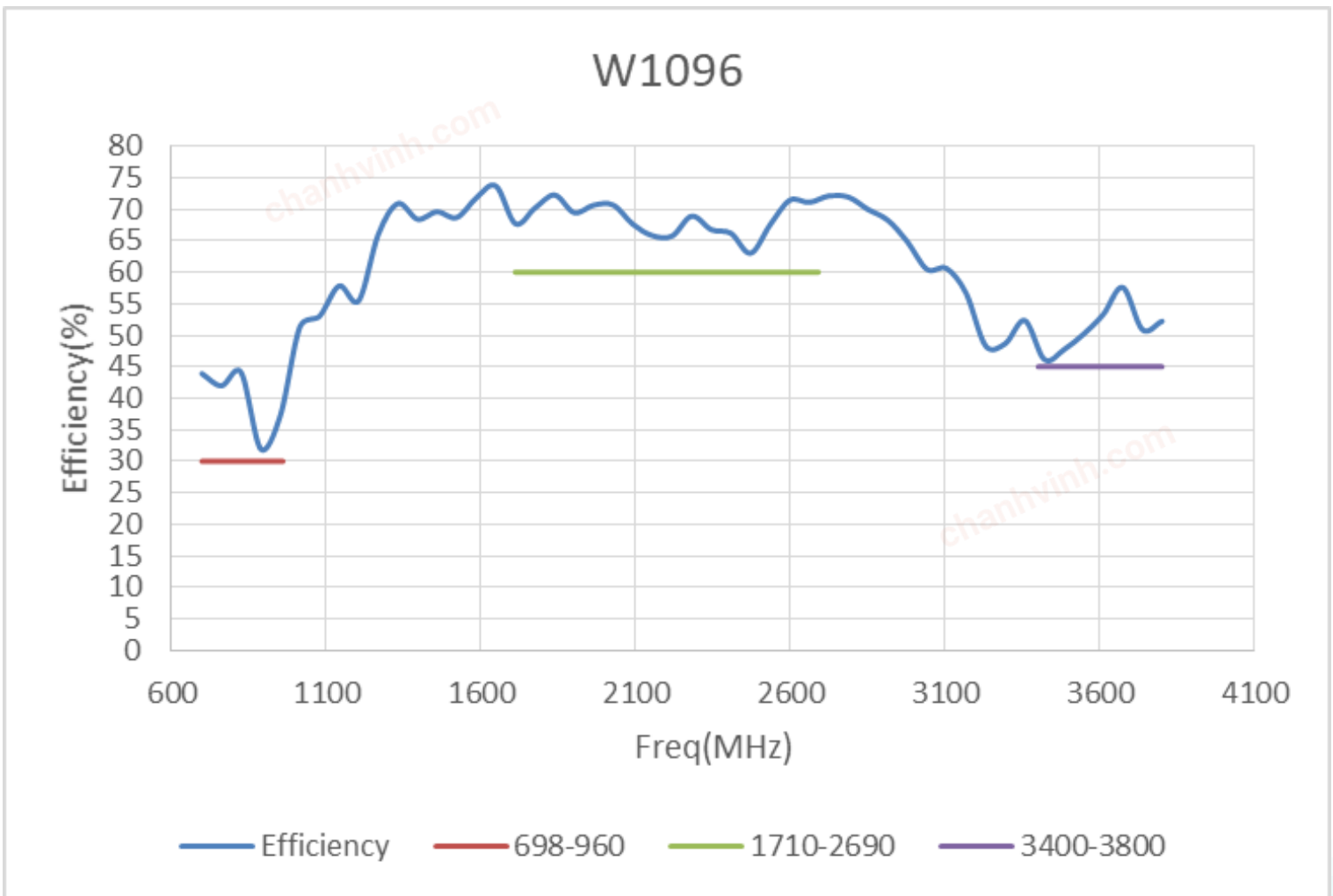
Total radiated Efficiency

Efficiency curve:



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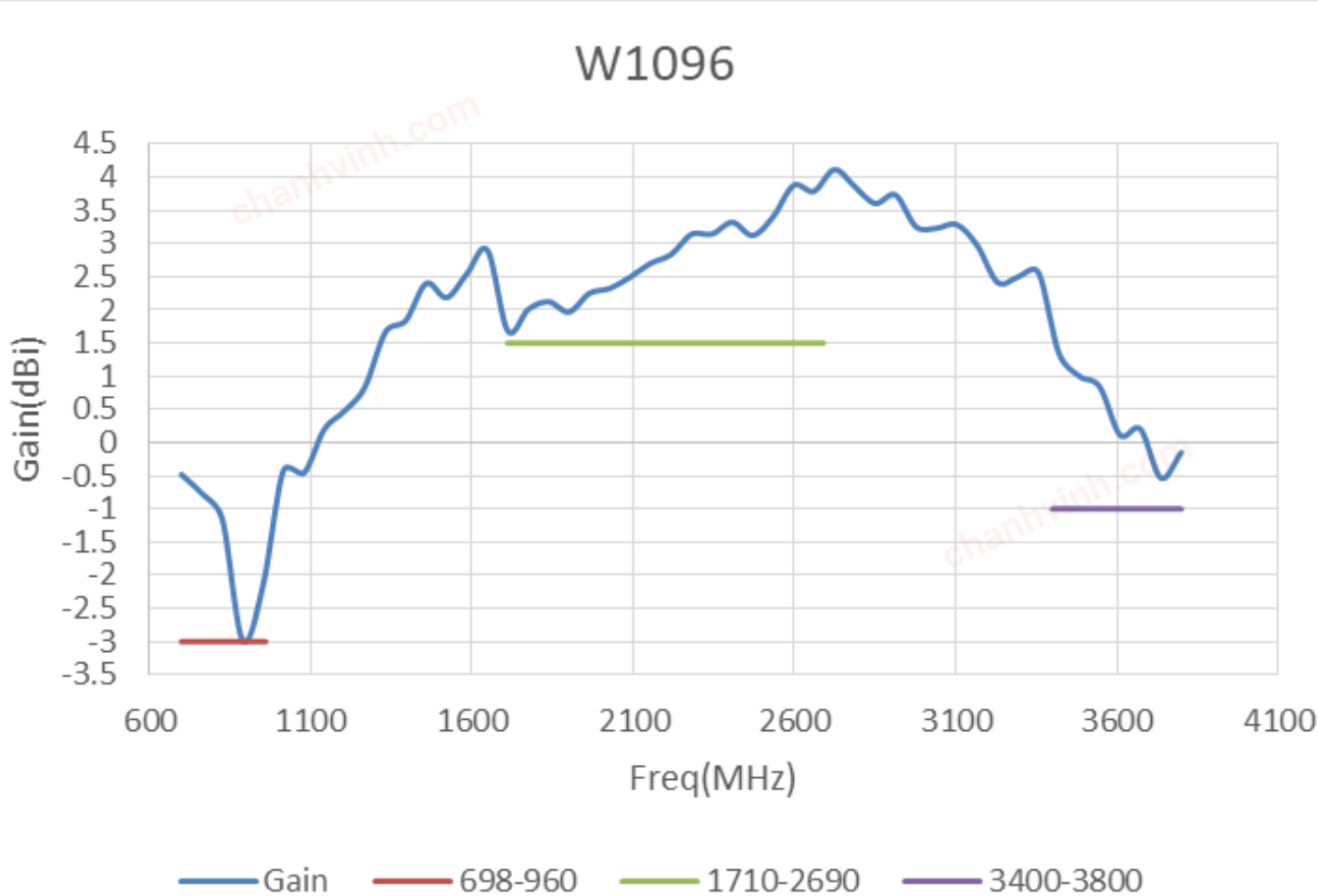
Maximum peak Gain

Peak gain curve:



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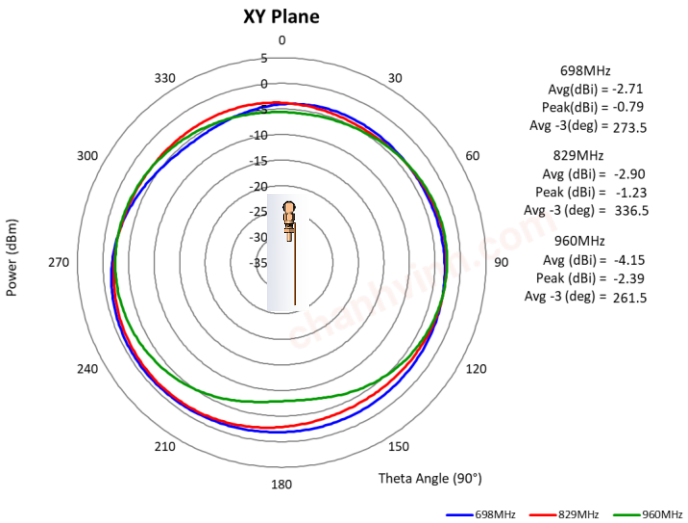
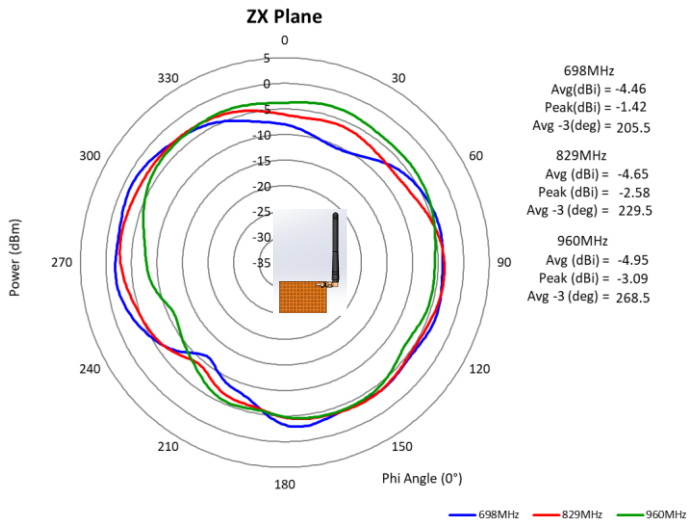
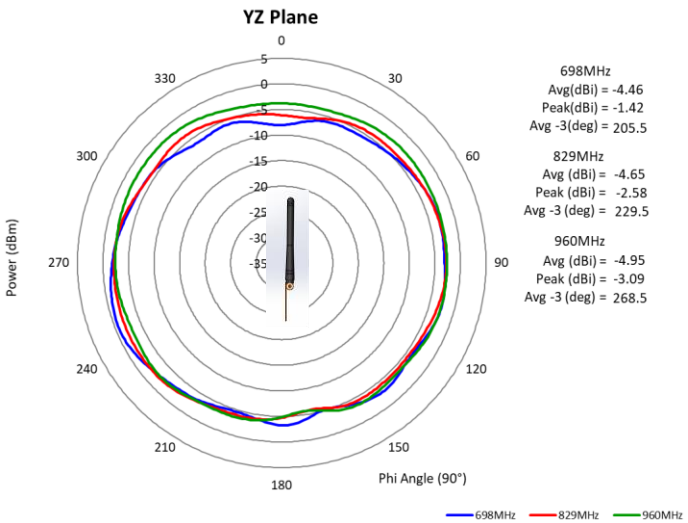
CHARTS

Curves at 698, 829 and 960MHz :







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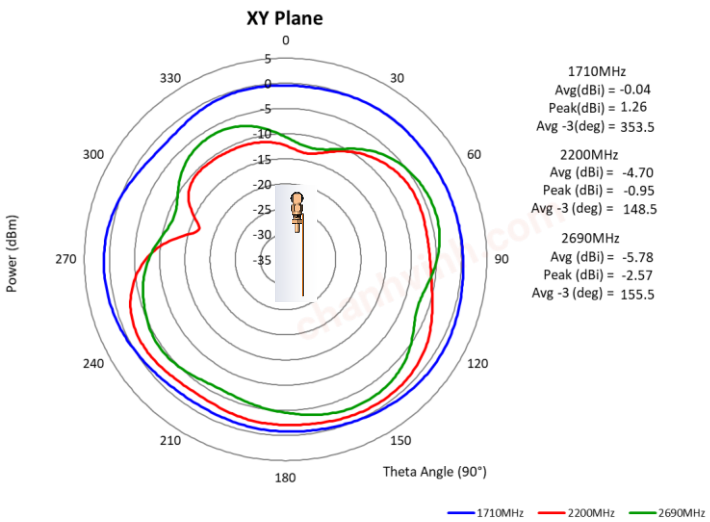
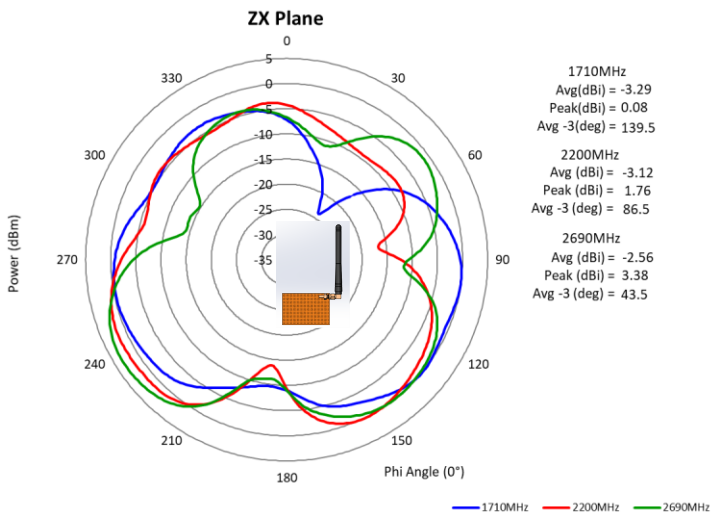
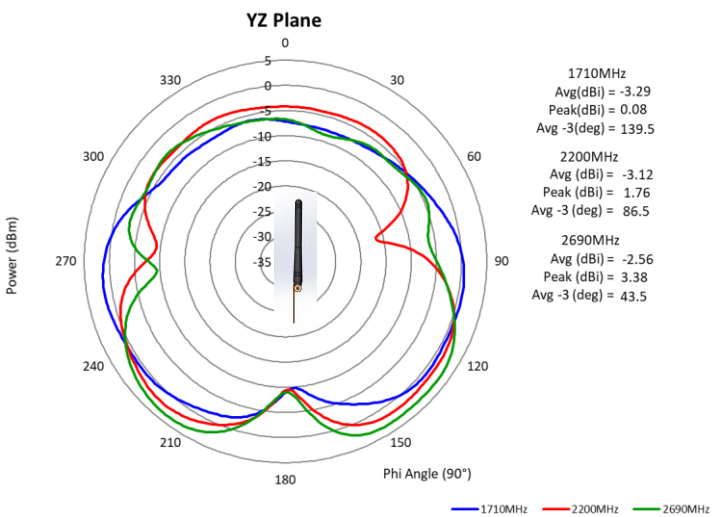
CHARTS

Curves at 1710, 2200 and 2690MHz:







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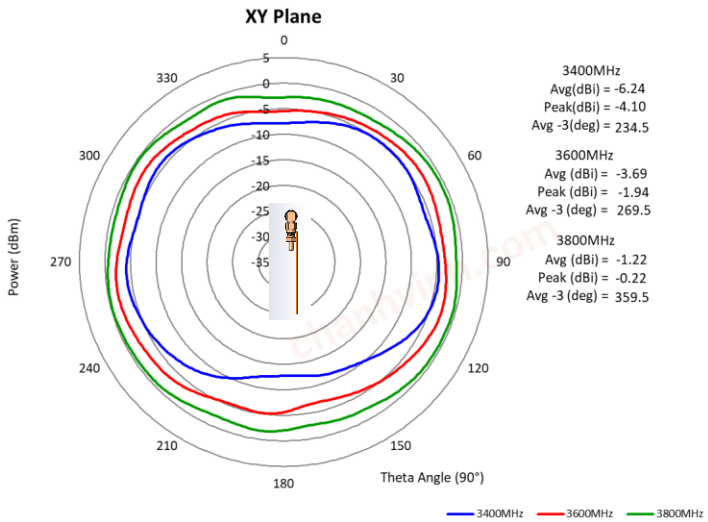
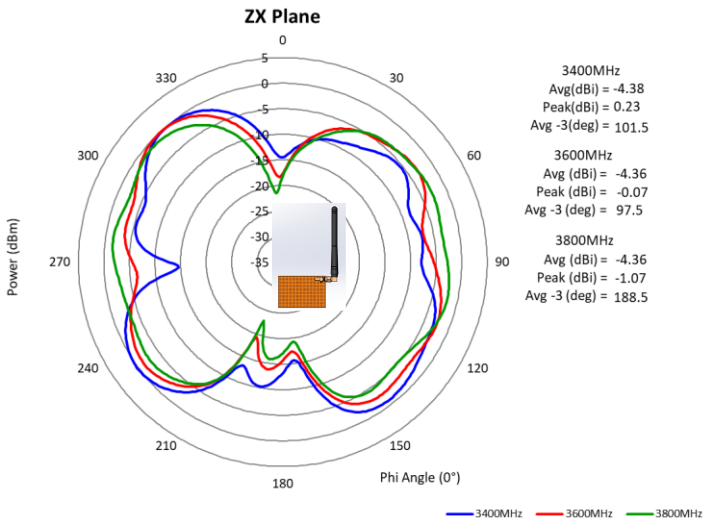
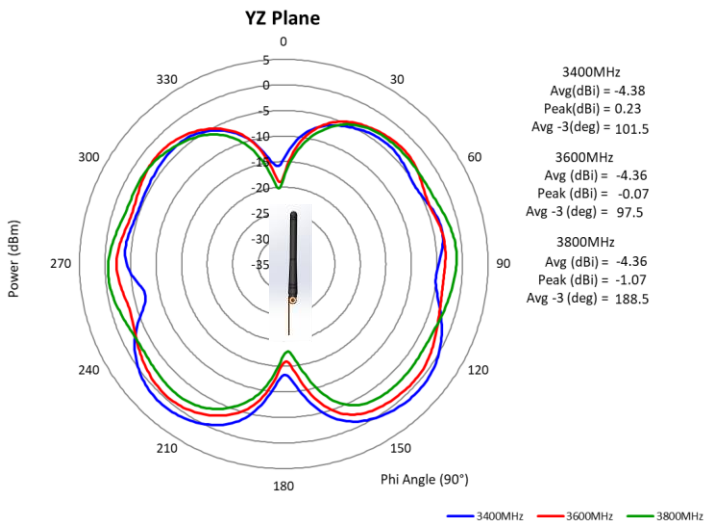
CHARTS

Curves at 3400,3600 and 3800MHz :







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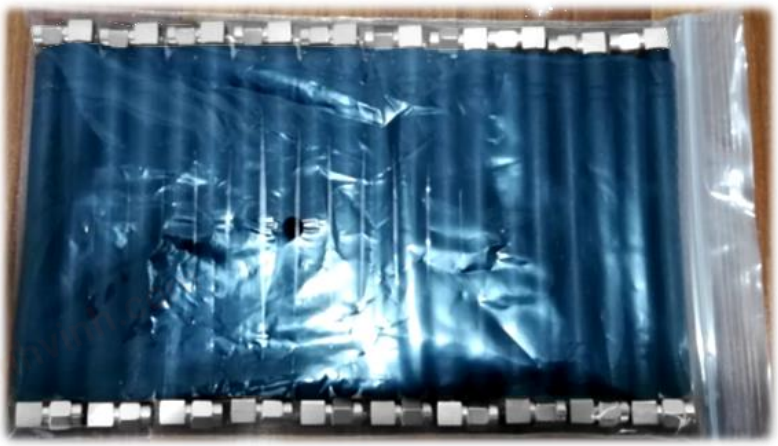
PACKAGING



20pcs ants each small bag

Item	QTY
Each small bag	20pcs
Each big bag	400pcs(20pcs small bags)
Each box	2000pcs

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