MSS3SMA

PN: SW25049EB78



Key features:

- Frequency bands from 820~960MHz,1700~2700MHz
- 4G/3G/2G Wide band Antenna
- High Performance
- Impedance 50 Ohm

Typical applications:

- Gateways
- Routers
- Smart Home
- Others

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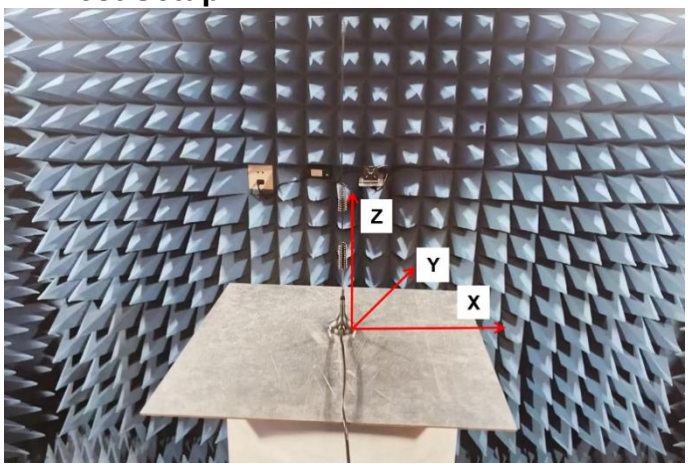
1. Specifications

Electrical: Test on a 30 * 30cm iron plate		
Standards	4G&3G&2G	
Frequency range (MHz)	800~960	1700~2700
Peak Gain (dBi)	-2.7 ~ 0.2	-3.4 ~ -0.3
Average Gain (dB)	-6.0 ~ -4.0	-10.0 ~ -6.5
VSWR	< 2.5	< 2.0
Return Loss	< -5.0	< -10.0
Efficiency (%)	25.0 ~ 40.0	10.0 ~ 22.0
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	
Max. Input Power(W)	5	

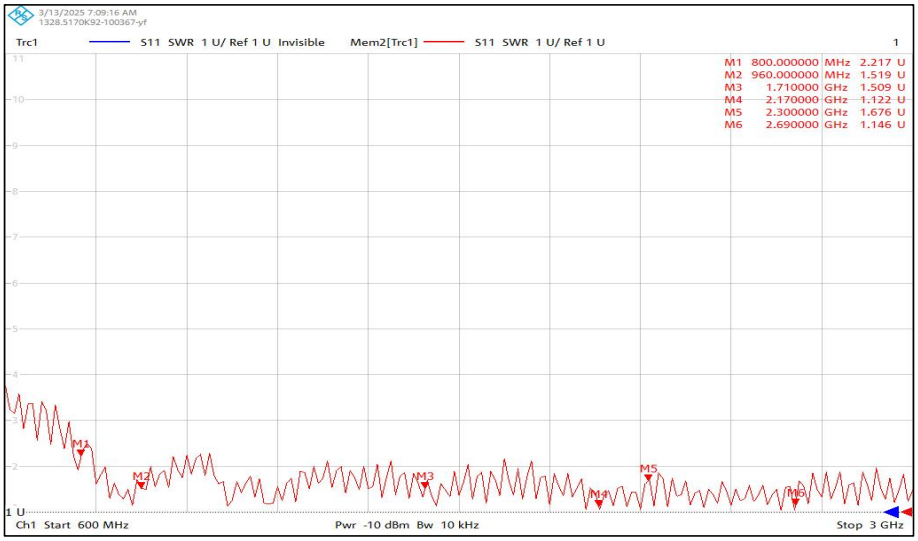
Mechanical	
Mounting Type	Connector Mount
Connector Type	SMA (3M)
Antenna size(mm)	307*φ30
Cable length(mm)	3000mm
Material	ABS+PC
Environmental	
Operating Temperature (˚C)	- 20 ˚C ~ + 65 ˚C
Storage Temperature(˚C)	- 20 ˚C ~ + 65 ˚C
Weight(g)	50

2. Antenna Characteristics

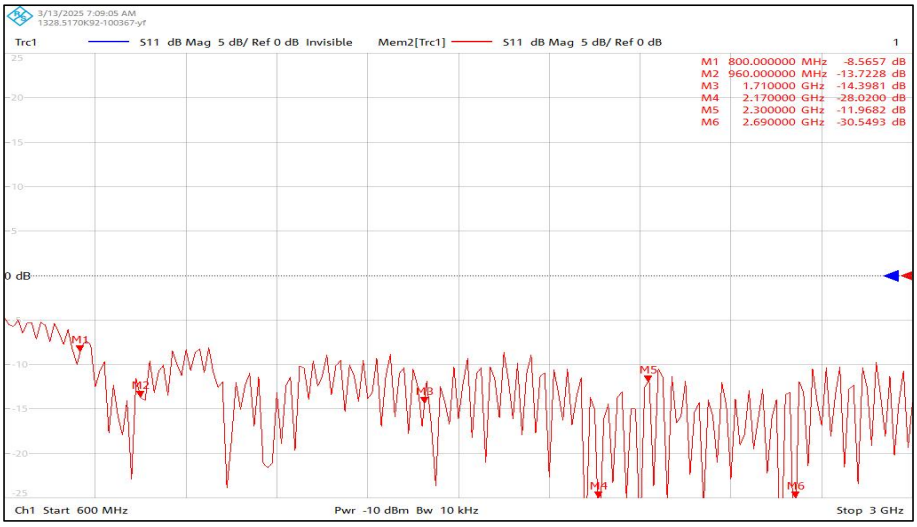
2.1 Test Setup



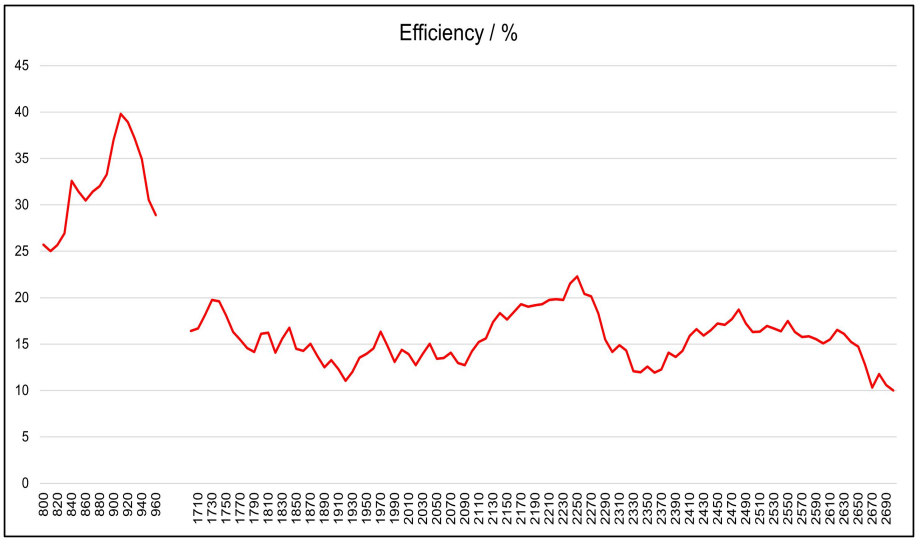
2.2 VSWR



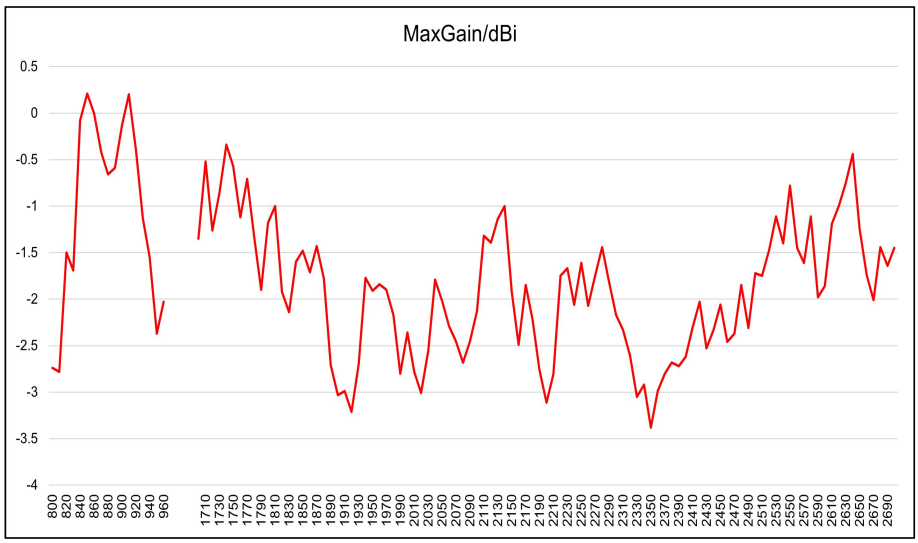
2.3 Return Loss



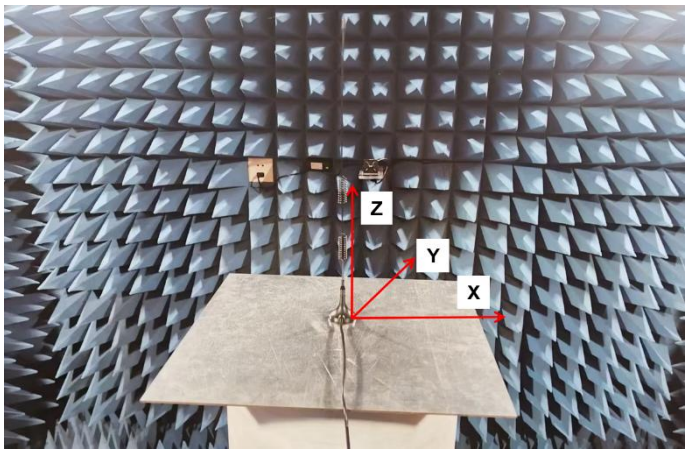
2.4 Efficiency

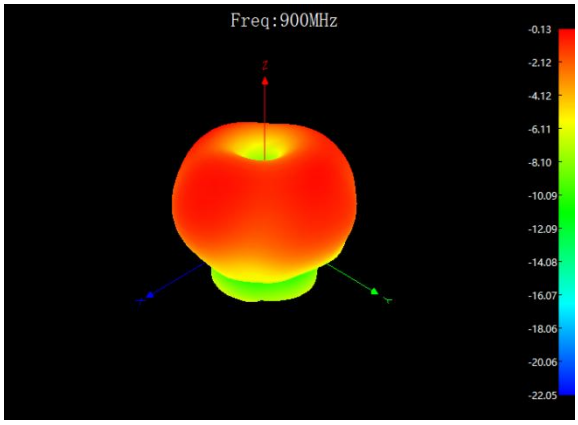


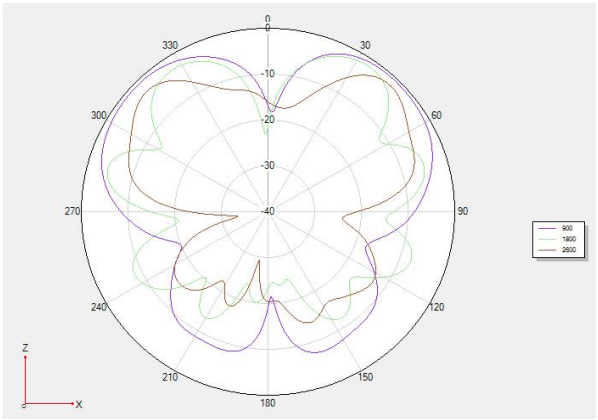
2.5 Gain

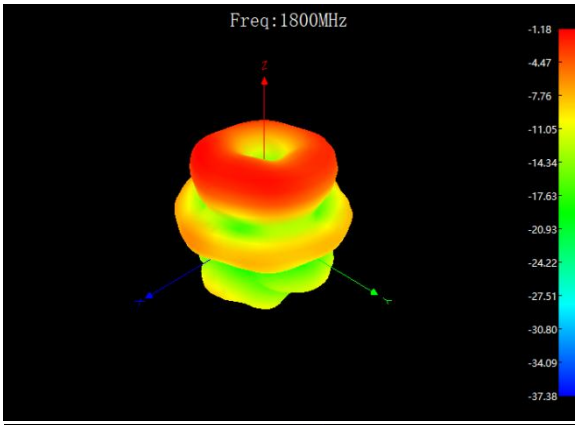


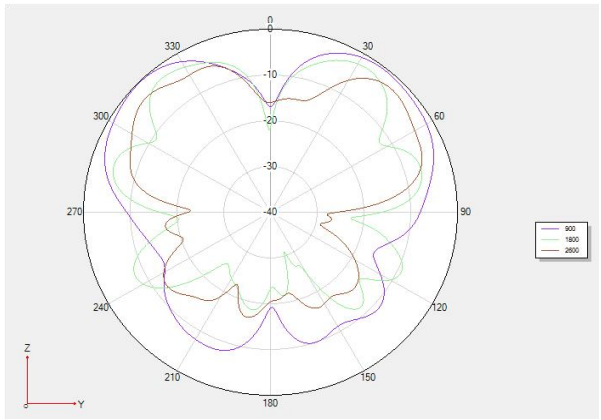
3. Radiation Patterns

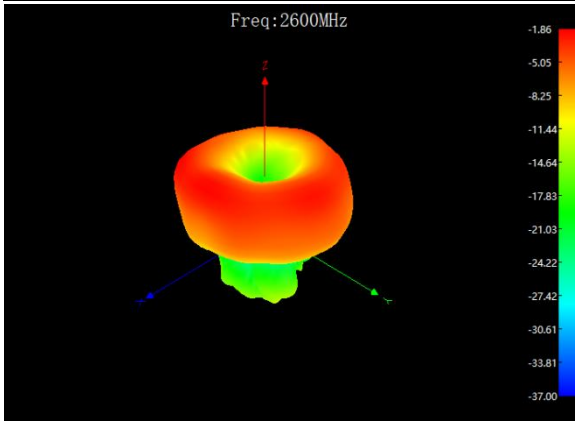


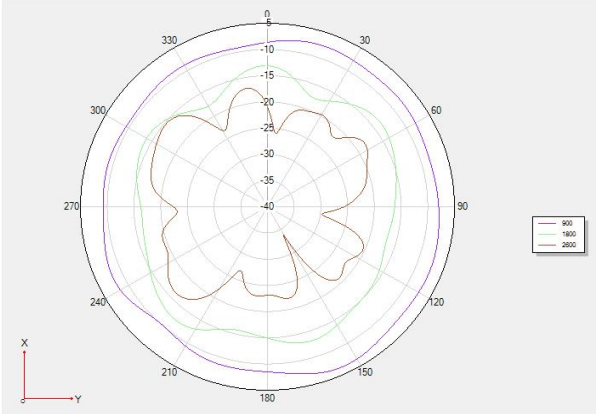






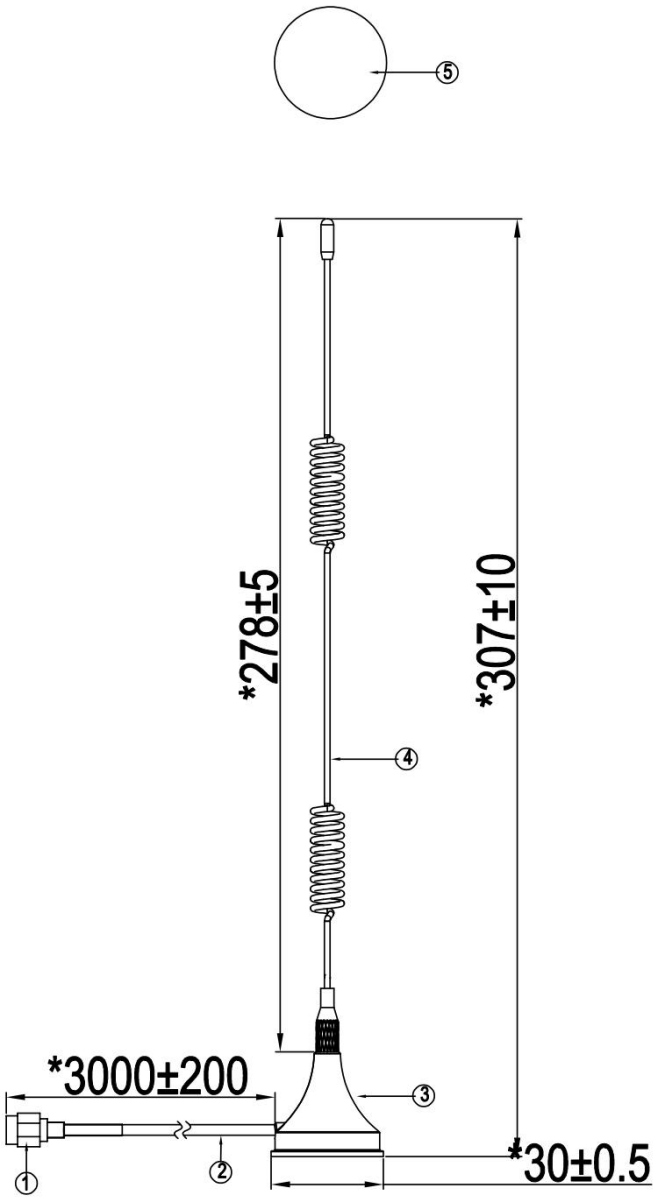






4. Antenna Drawings

(Unit:mm)



Series	name	Measure and explain	Color	Quantity
1	SMA	Inner needle with internal thread	Gold	1
2	RG174cable	RG174 cable, 3000mm	Black	1
3	Base	ϕ30mm	Black	1
4	Spring ANT	278mm,	Black	1
5	label	Under the base	Black	1

Changelog for the datasheet	
MSS3SMA	
Revision: V0(First Release)	
Date:	2025-3-13
Notes:	Initial Datasheet Release
Author:	Kevin