



SWE055

PN: SW21098EB78

Key features:

- Frequency bands from 698~960MHz, 1700~2700MHz
- 4G/3G/2G Wide band Antenna
- High Performance
- Impedance 50 Ohm

Typical applications:

- Gateways
- Routers
- Smart Home
- Others

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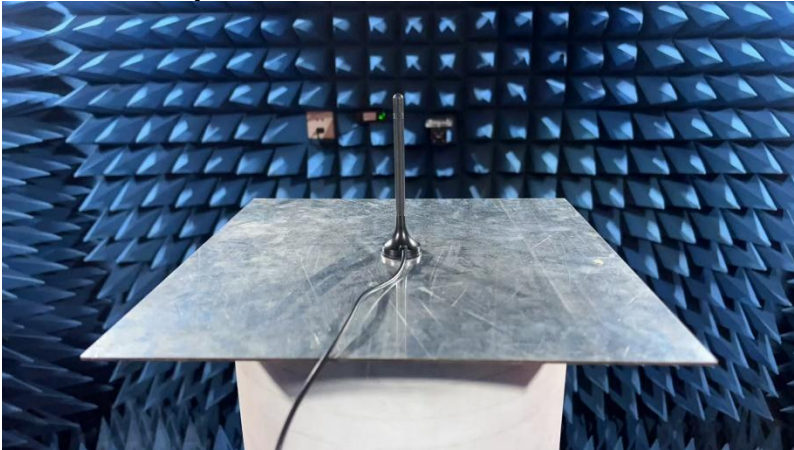
1. Specification

Electrical: Test on 30 * 30cm GND			
Standards	4G&3G&2G		
Frequency range (MHz)	698 ~ 960	1701~2170	2300~2690
Peak Gain (dBi)	-0.7 ~ 3.6	-0.7 ~ 3.2	-1.0 ~ 0.7
Average Gain (dB)	-7.0 ~ -4.6	-8.2 ~ -5.9	-8.2 ~ -7.0
VSWR	< 3.0	< 2.0	< 2.0
Return Loss	< -5.0	< -10.0	< -10.0
Efficiency (%)	20.0 ~ 35.0	15.0 ~ 26.0	15.0 ~ 20.0
Polarization mode	Linear		
Radiation pattern	Omni-Directional		
Output impedance (Ω)	50		
Max. Input Power(W)	5		

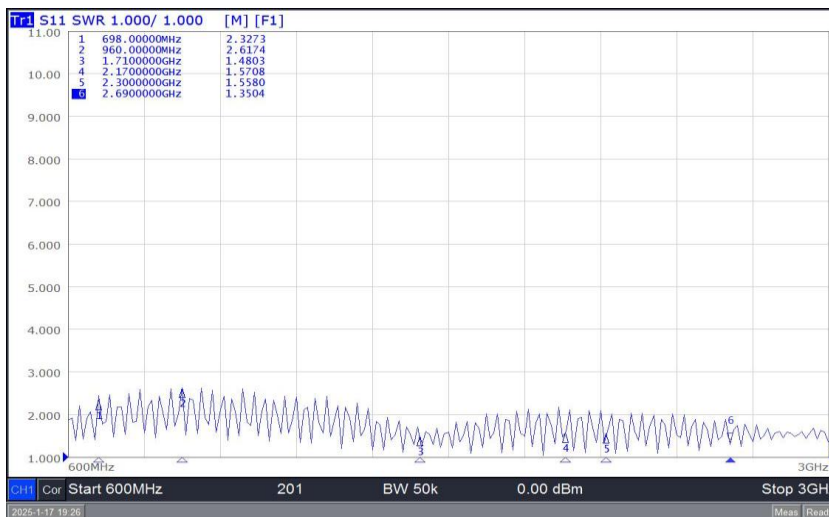
Mechanical	
Mounting Type	Connector Mount
Connector Type	SMA-M
Antenna size(mm)	$\Phi 7.0 \times 110.5$ (H)
Cable length(mm)	3000
Material	ABS
Environmental	
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

2. Antenna Characteristics

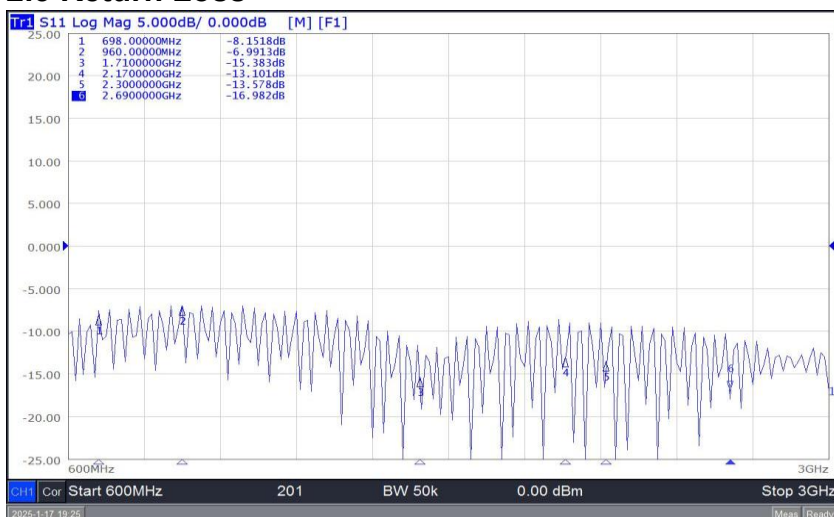
2.1 Test Setup



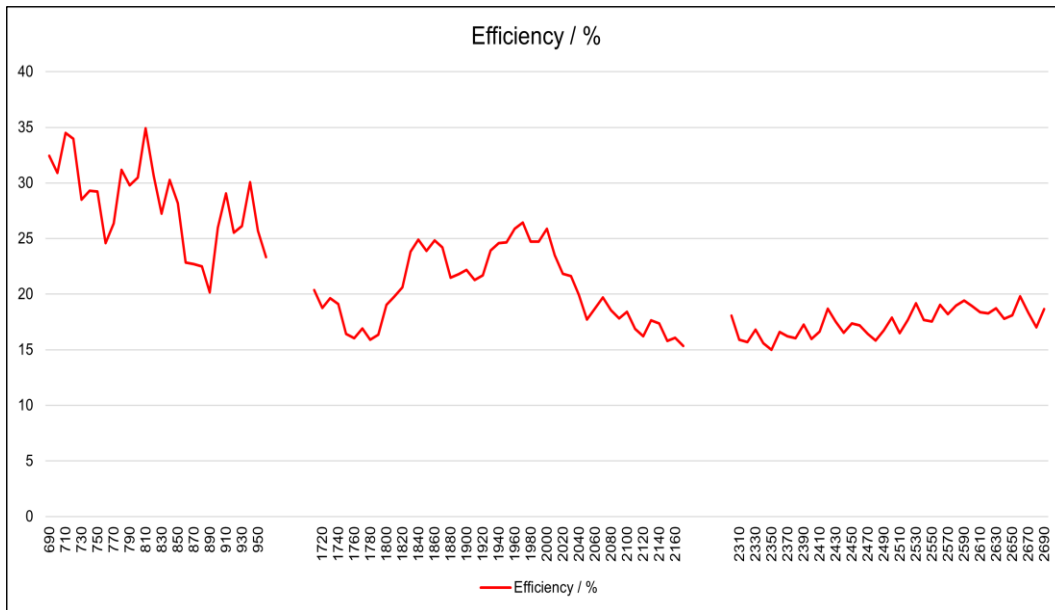
2.2 VSWR



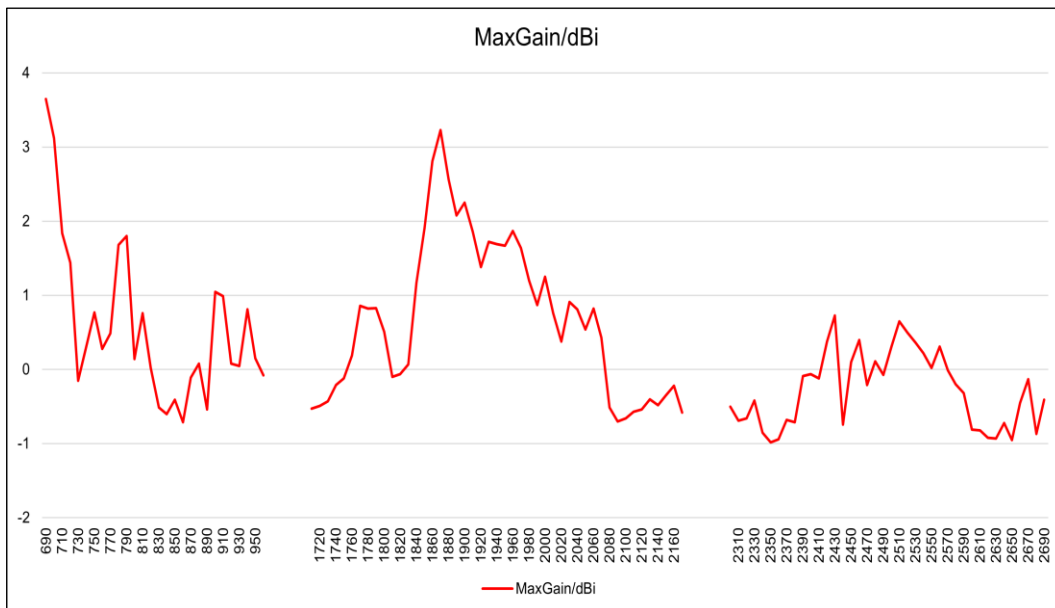
2.3 Return Loss



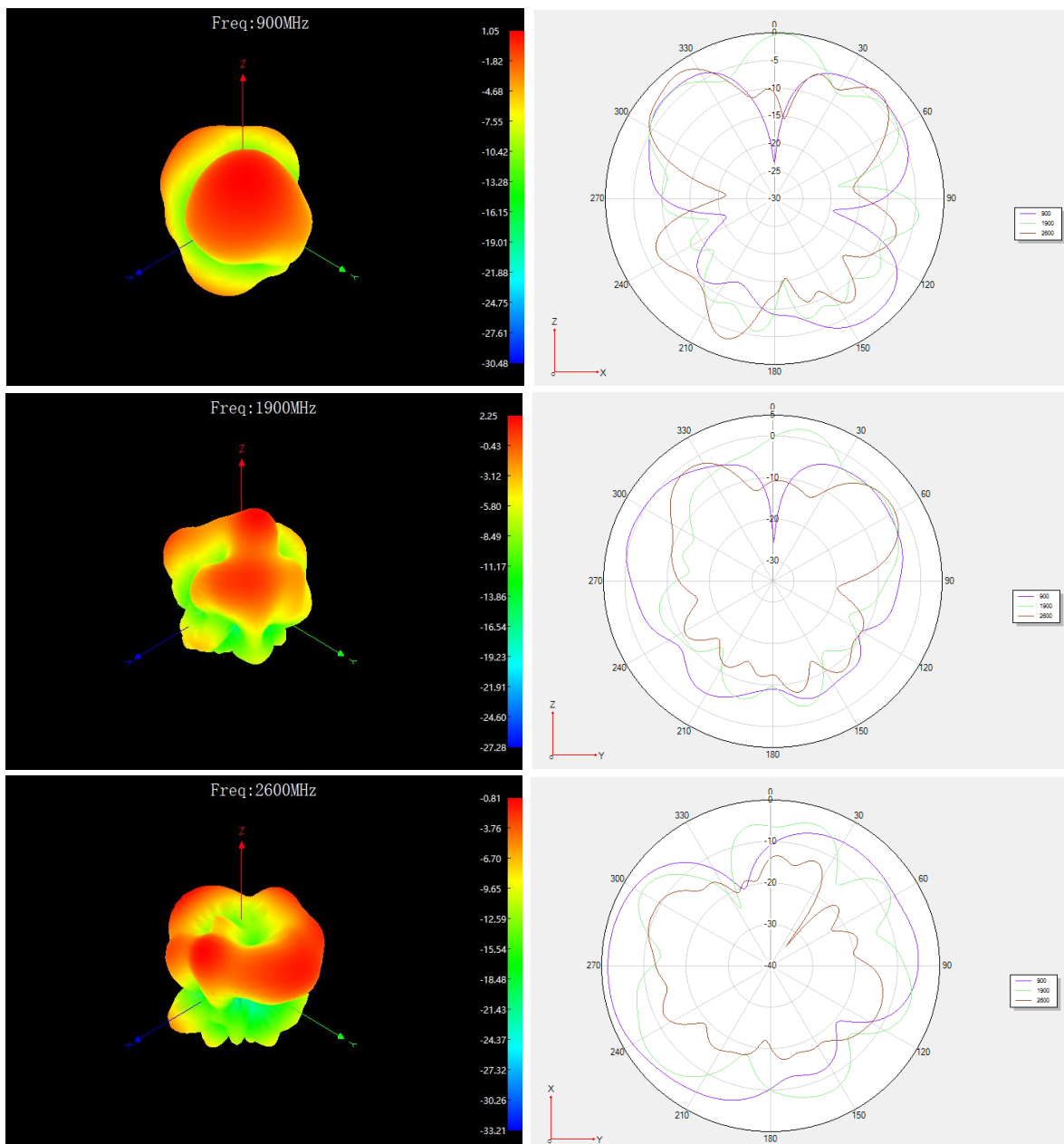
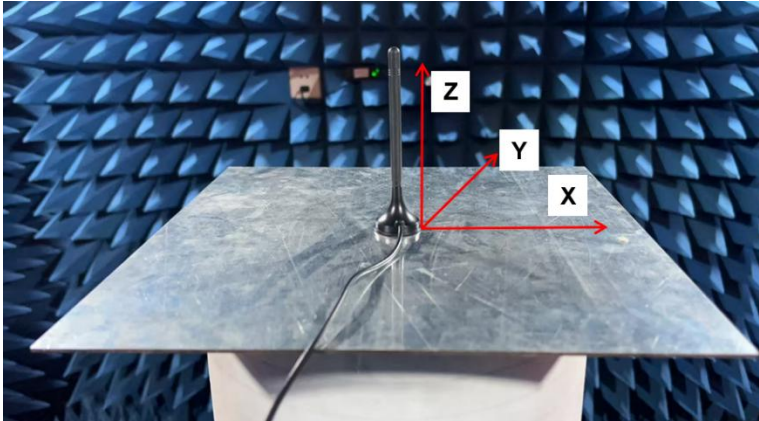
2.4 Efficiency



2.5 Gain

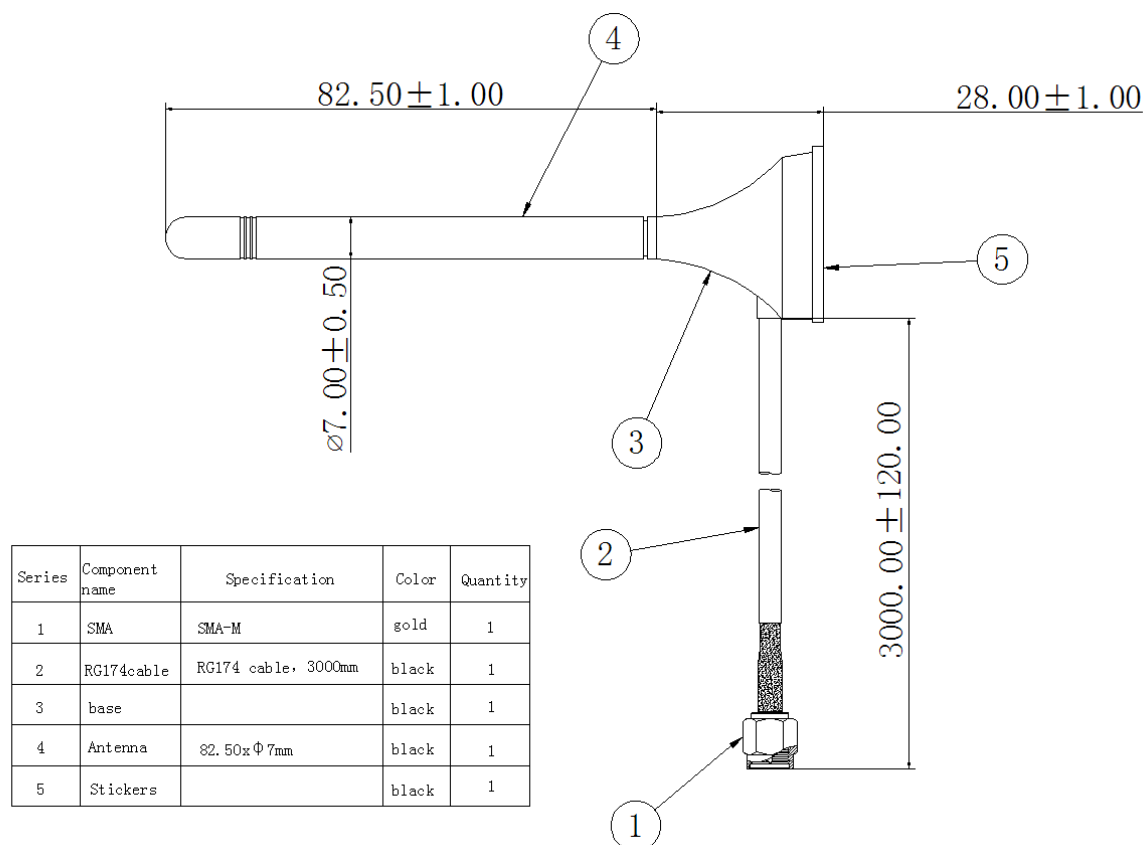


3. Radiation Patterns



4. Antenna Drawing

Unit: mm



Changelog for the datasheet			
Revision	Date	Author:	Notes:
V0	2024-03-15	Kevin LV	Initial Datasheet Release
V1	2025-01-17	Kevin LV	Increase 4G Frequency Band
V2	2025-06-13	Kevin LV	Update text formatting, titles, fonts, etc