BTG-823868

PN: SW26026EB56



Key features:

- Frequency bands: 868MHz
- Impedance 50 Ohm
- Customizable Cable and Connector

Typical applications:

- Gateways
- Routers
- Smart Home
- Others

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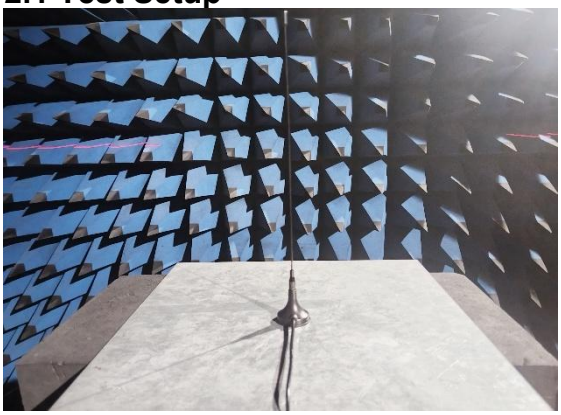
1. Specification

Electrical：Test with 300mm cable length on a 30*30cm metal plate	
Standards	ISM 868
Frequency range (MHz)	868
Peak Gain (dBi)	2.1
Average Gain (dB)	-2.7
VSWR	< 2.0
Return Loss	< -10.0
Efficiency (%)	54.0
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	5

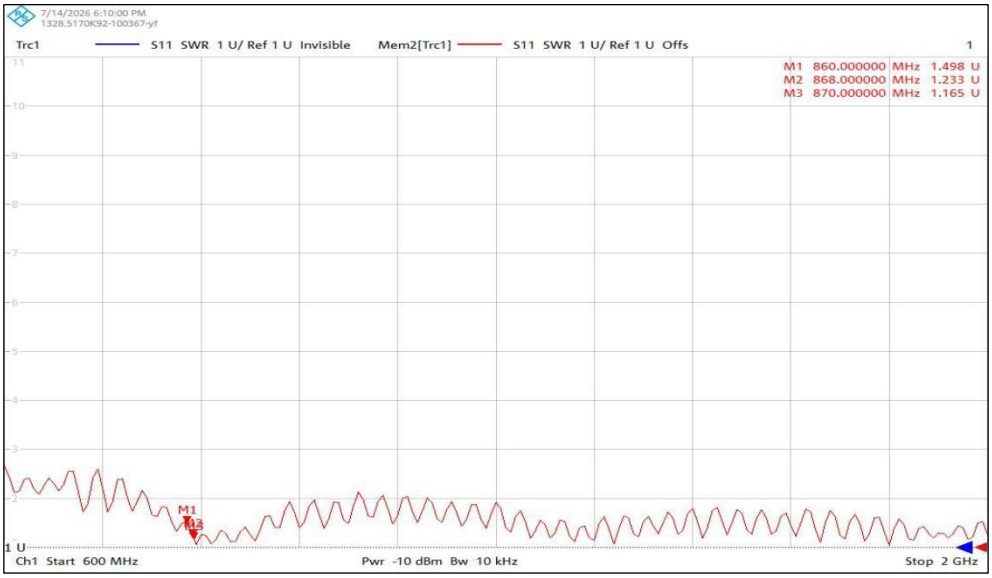
Mechanical	
Mounting Type	Magnetic
Connector Type	SMA-M
Antenna size(mm)	Φ30 X 251 (H)
Cable length(mm)	3000
Material	ABS
Weight	88g
Environmental	
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

2. Antenna Characteristics

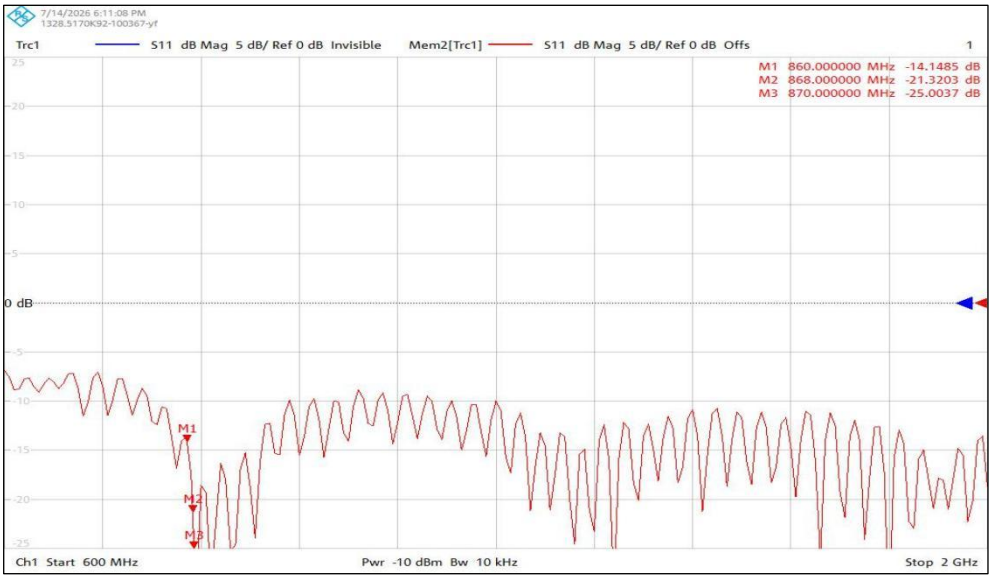
2.1 Test Setup



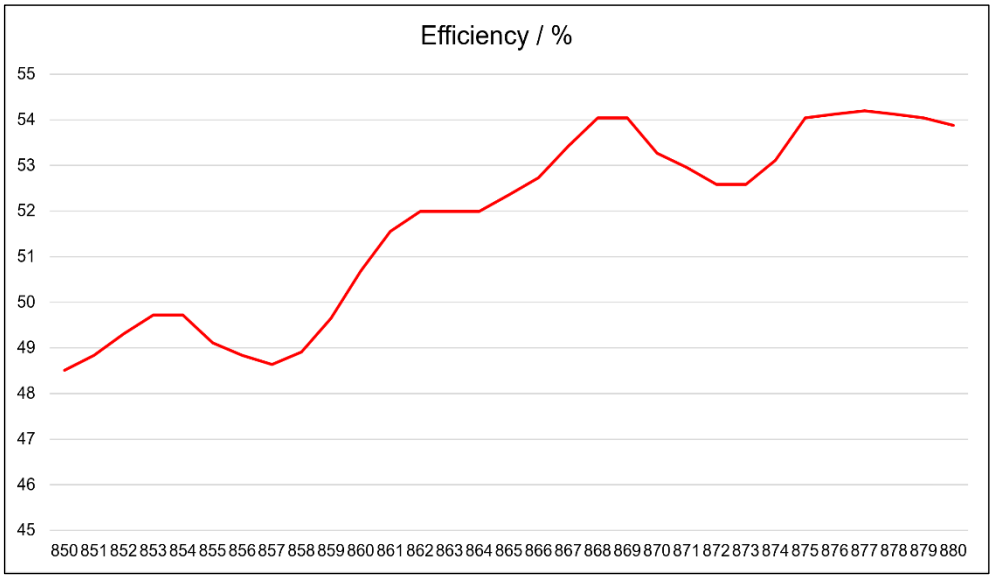
2.2 VSWR



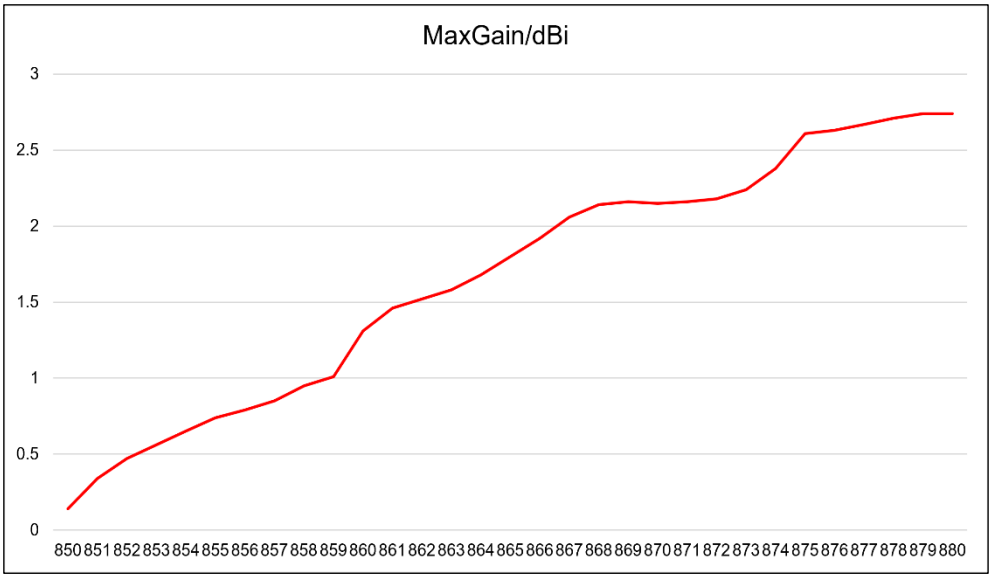
2.3 Return Loss



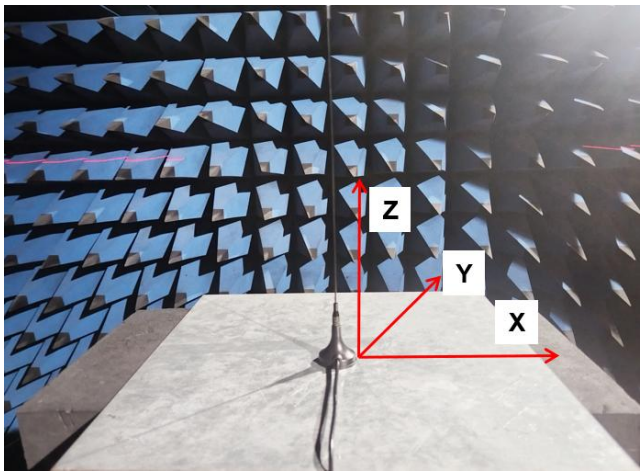
2.4 Efficiency

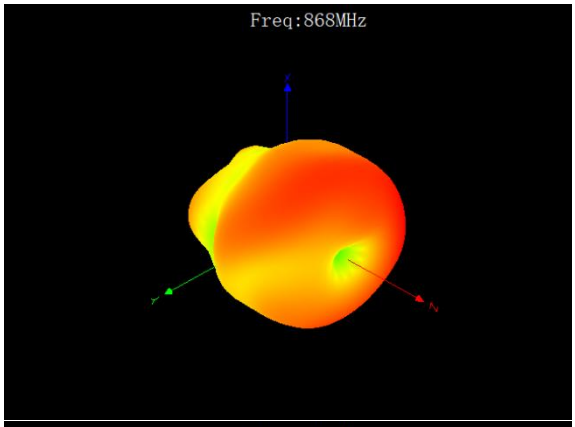


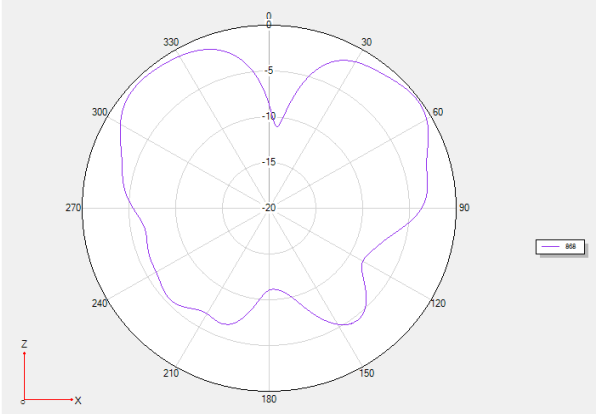
2.5 Gain

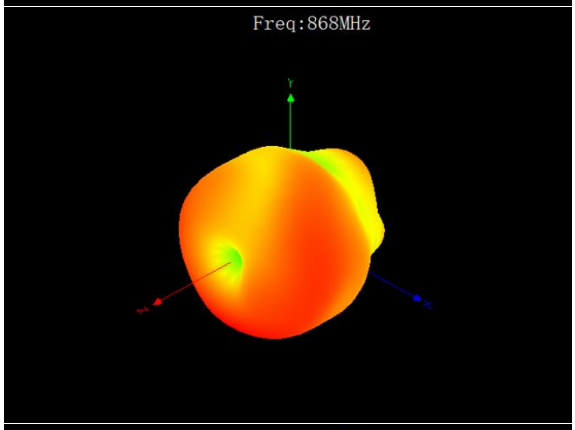


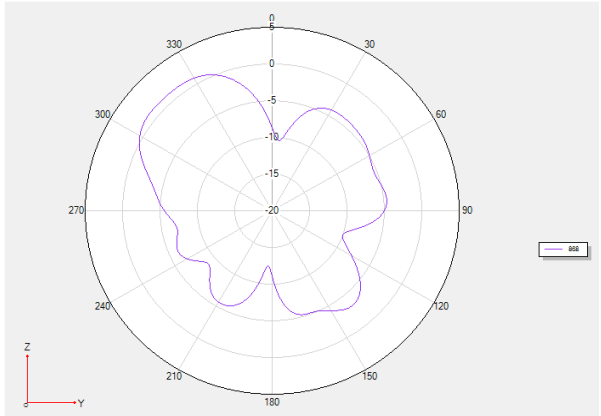
3. Radiation Patterns

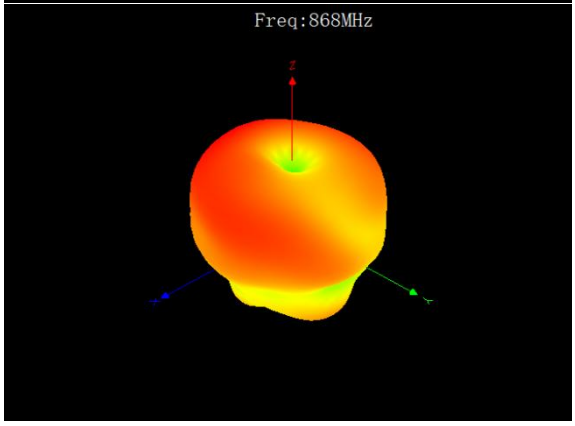


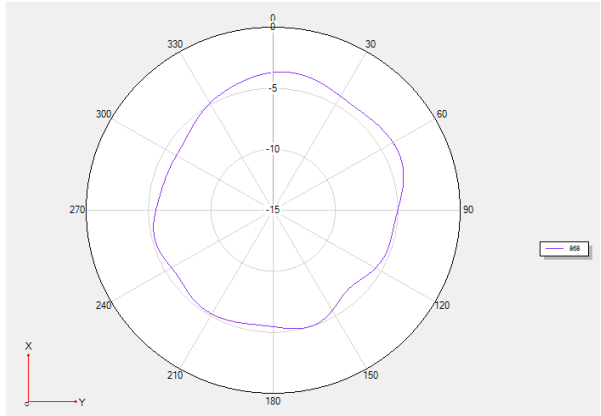






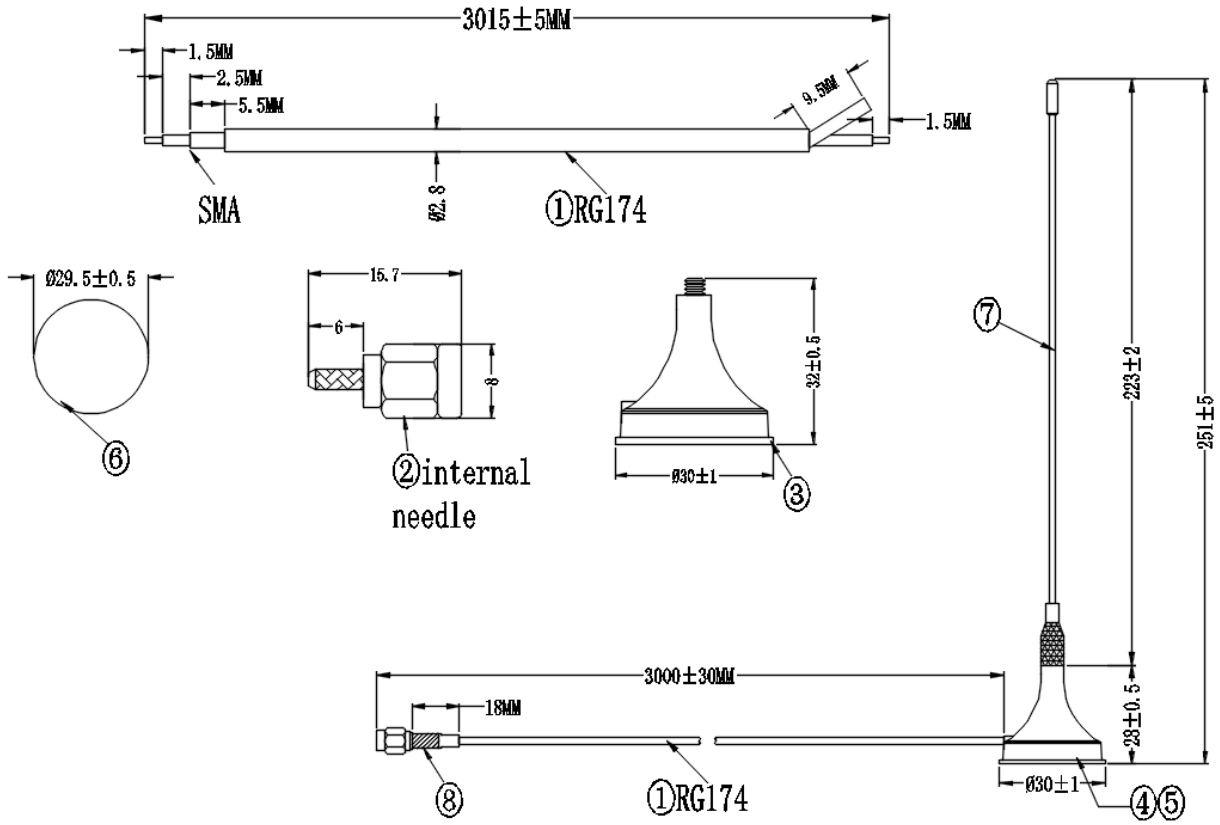






4. Antenna Drawing

Unit: mm



NO	Name	Description	O'ty
8	Heat shrink tubing	18*3.5MM Black eco-friendly heat shrink tubing	1
7	Steel wire	Aluminum head	1
6	Tags	No-text sticker. Sticker thickness: 0.2MM	1
5	Magnet	Single-sided magnet N38	1
4	Hardware piece	Hardware piece	1
3	Pedestal	Small suction cup, connects to RG58 cable	1
2	SMA	SMA male connector pin / RG174 gold-plated 24 hours	1
1	Cable	RG174-64strand copper-clad aluminum, L=3015mm, black	1

Changelog for the datasheet			
Revision	Date	Author:	Notes:
V0	2026-07-16	Kevin LV	Initial Datasheet Release