



DATASHEET

TARVOS2 | SZW-N-5L38 | Magnetic Mount Antenna | 4G LTE / RedCap

Features:

4G LTE/RedCap: 698-960; 1710-2700MHz

>3.0dBi Peak Gain, >50% Efficiency

Dimensions: 269 x 17.0, Ø65 base

Cable Length: 3000mm, RG58

Connector: SMA Male

RoHs Compliant

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Introduction

TARVOS2 is a high efficiency IP65 rated magnetic mount antenna developed for wideband cellular and broadband applications that require reliable multi-band performance and rapid installation. The antenna supports 5G RedCap in addition to LTE, GSM, UMTS and WCDMA, with continuous coverage across 698 to 960 MHz, 1710 to 2200 MHz, 2300 to 2400 MHz and 2500 to 2690MHz. This wide operational range allows a single compact antenna to service a broad variety of modern wireless systems.

The housing incorporates a precision tuned internal radiator structure designed to maintain stable electrical performance in both indoor and outdoor environments. The integrated high strength magnetic base ensures secure mounting on metal surfaces, providing mechanical stability under vibration, movement and exposure to weather. A long low loss cable and SMA male connector allow flexible routing and placement while preserving signal integrity.

Features

- Multi band operation supporting 5G RedCap
- Coverage across all key cellular bands from 698 to 2690 MHz
- High efficiency internal brass radiator system
- IP65 weather resistant enclosure for outdoor use
- Strong magnetic base for secure metal surface mounting
- Long low loss RG cable for flexible routing
- Stable VSWR across operating bands
- Rugged ABS and TPEE construction for long service life

Applications

- 5G RedCap gateways and industrial routers
- IoT edge devices and remote monitoring systems
- Telemetry and telematics units
- Security and surveillance equipment
- Transportation and fleet management systems
- Fixed and mobile broadband equipment

Mechanical Specifications

Parameter	
Part Number	SZW-N-5L38
Name	TARVOS2
Dimensions (mm)	269 x Ø17.0 (Ø65.0 Base)
Antenna Type	Mag mount + Cable
Cable Length (mm)	3000, RG58, Black
Connector Type	SMA Male
Part Number with cable + connector	SZW-N-5L38-300-09
IP Rating	IP 65

Electrical / RF Specifications

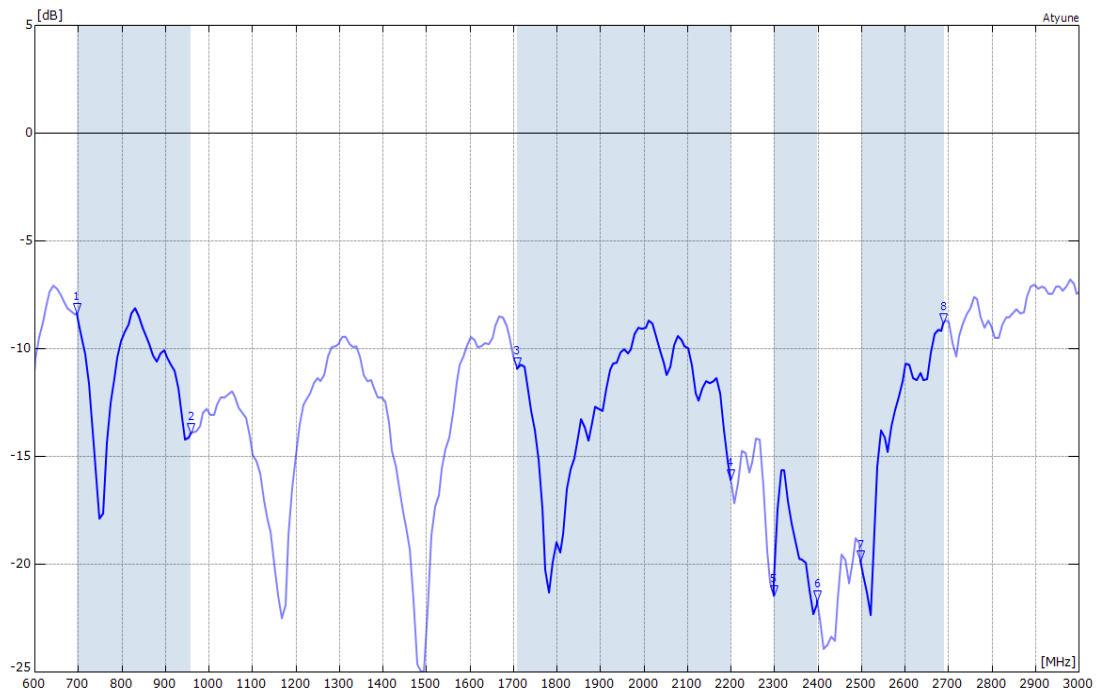
Band	Frequency Range (MHz)	Average Efficiency (%)	Peak Gain (dBi)	VSWR (worst case)	Impedance
5G NR/4G LTE B5,8,12,13,14,17,18,20,26,27,28,29	698-960	>60	3.80	2.50:1	50 Ω
5G NR/4G LTE B1,2,3,4,9,23,35,39,66	1710-2200	>50	3.90	2.20:1	
5G NR/4G LTE B40	2300-2400	>50	2.99	1.50:1	
5G NR/4G LTE B7,38,41	2500-2690	>40	4.29	2.20:1	

Environmental

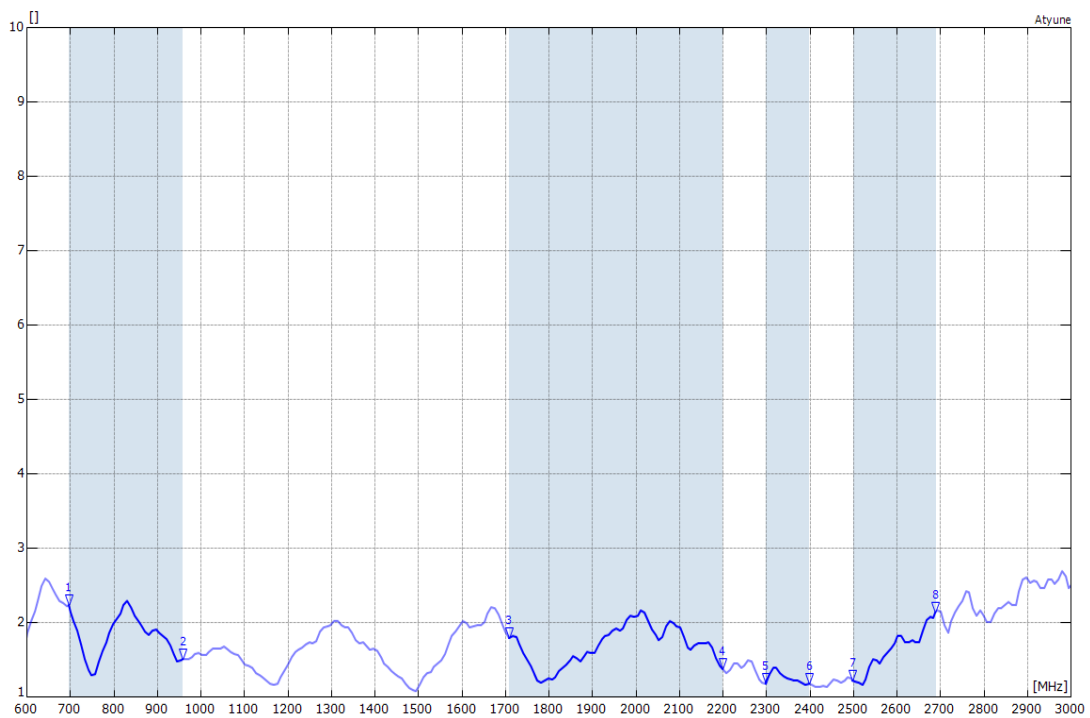
Parameter	
Operational Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
IP Rating	IP65
RoHs and REACH compliant	Yes

RF Characteristics

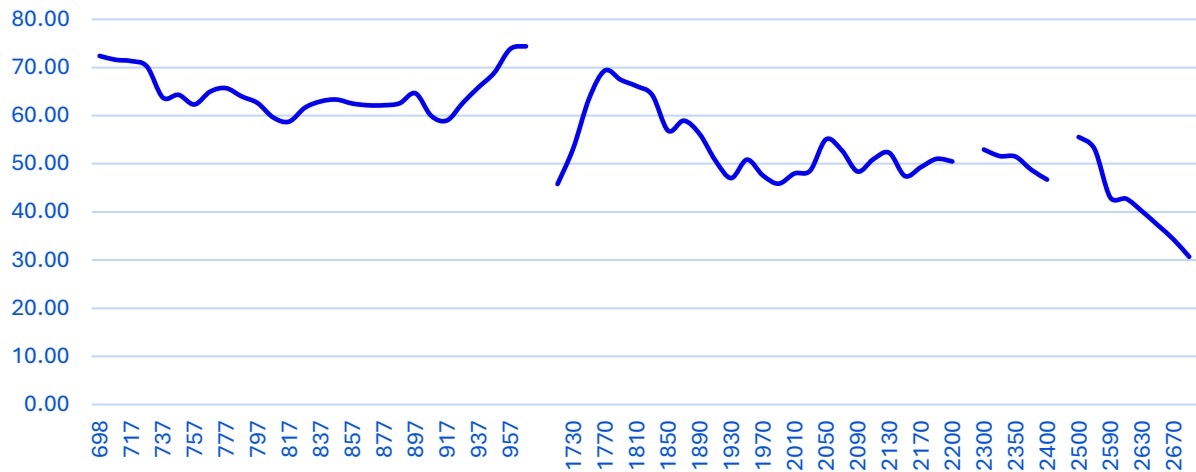
Return loss



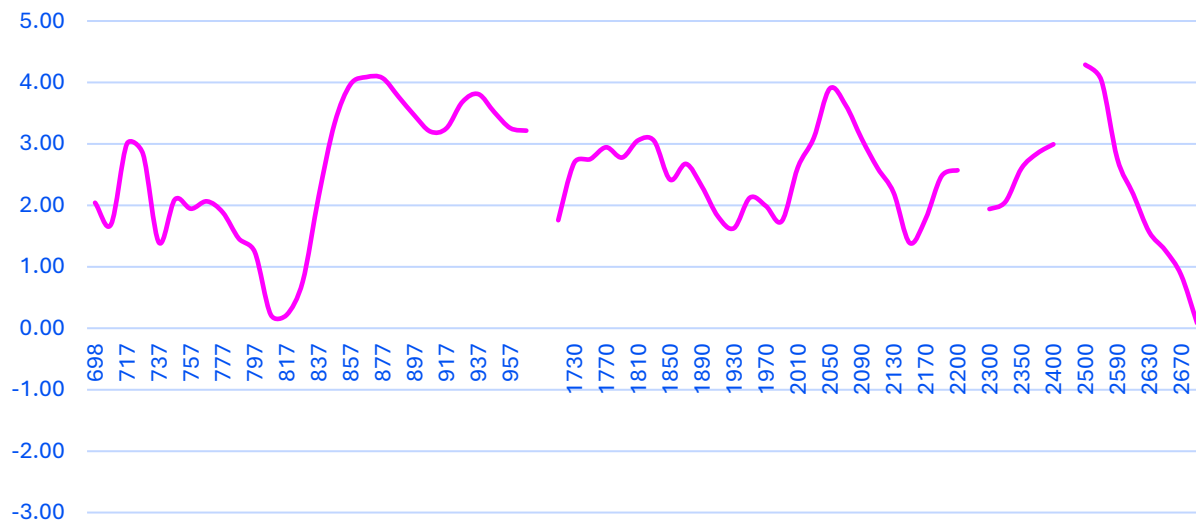
VSWR



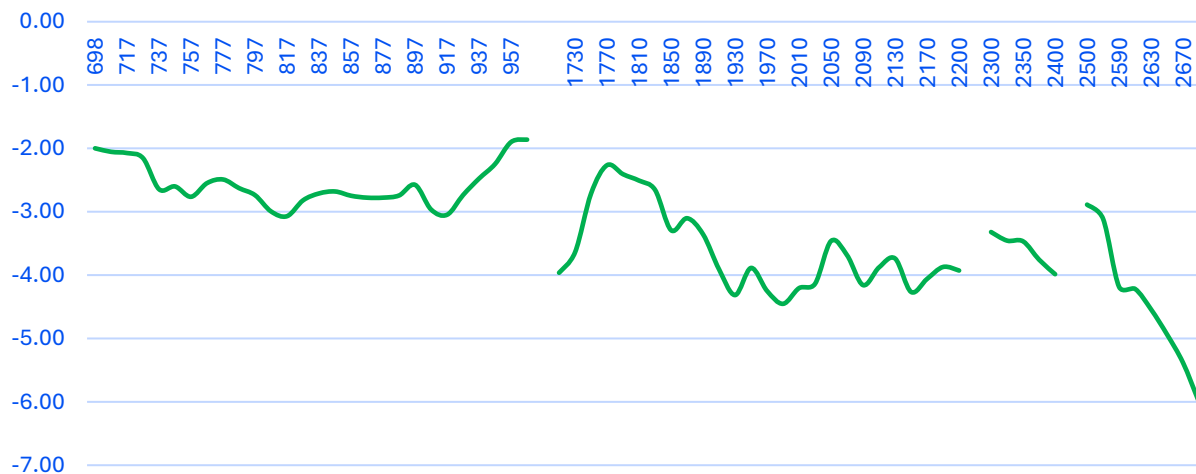
Efficiency



Peak Gain

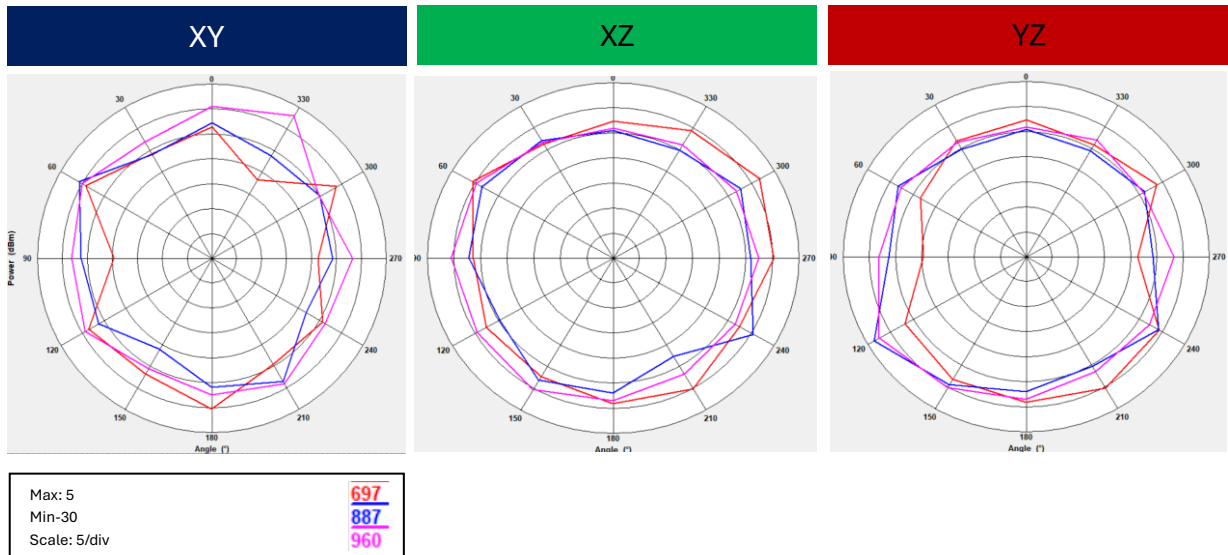
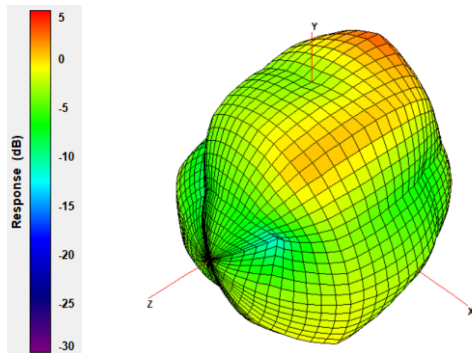


Average Gain

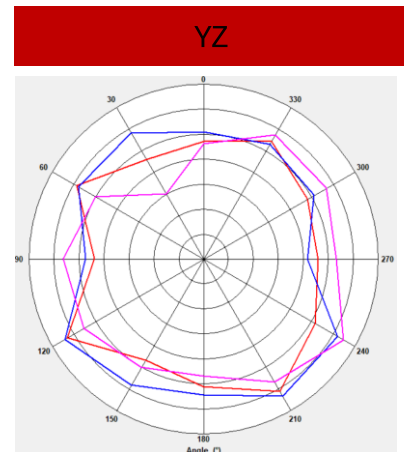
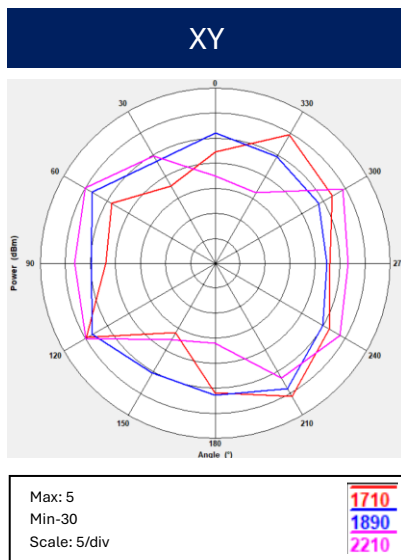
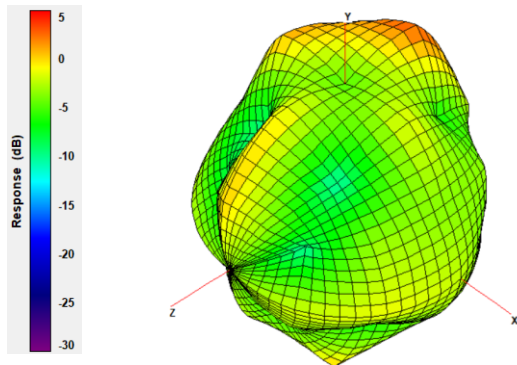


RF Radiation Patterns

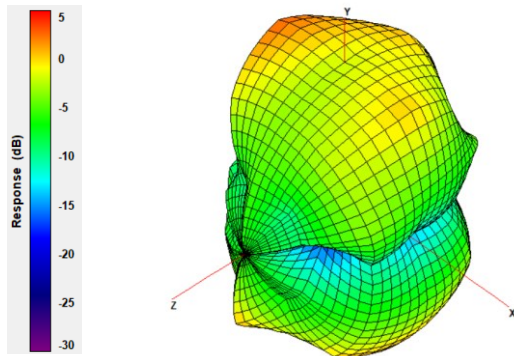
RF Radiation Patterns at 880MHz



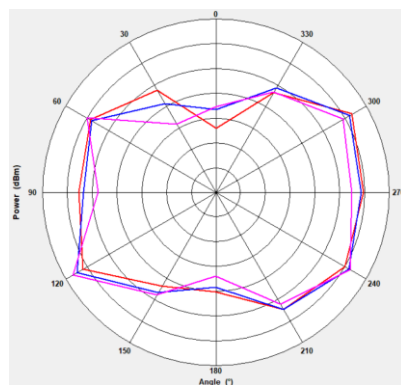
RF Radiation Patterns at 1880MHz



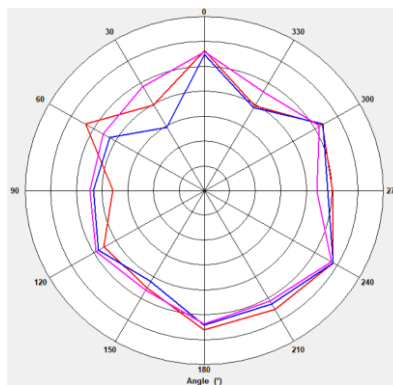
RF Radiation Patterns at 2350MHz



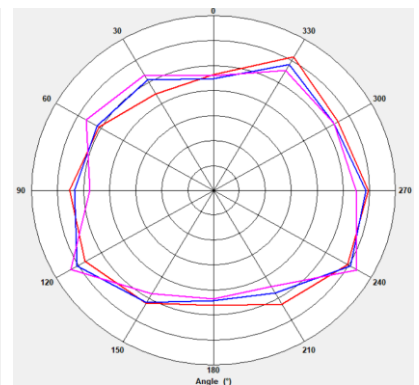
XY



XZ



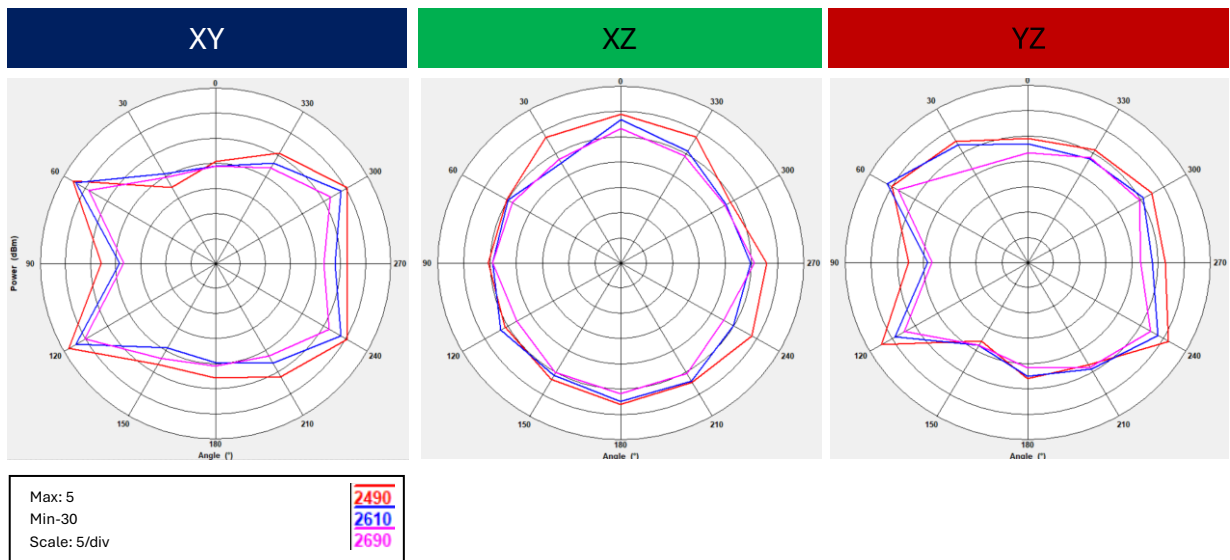
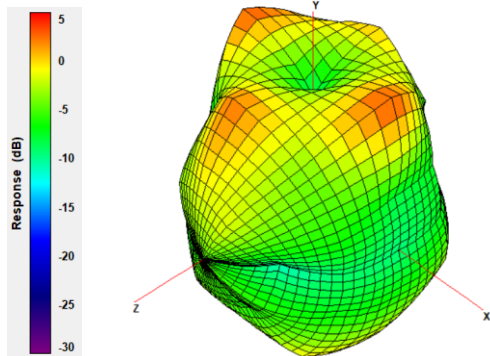
YZ



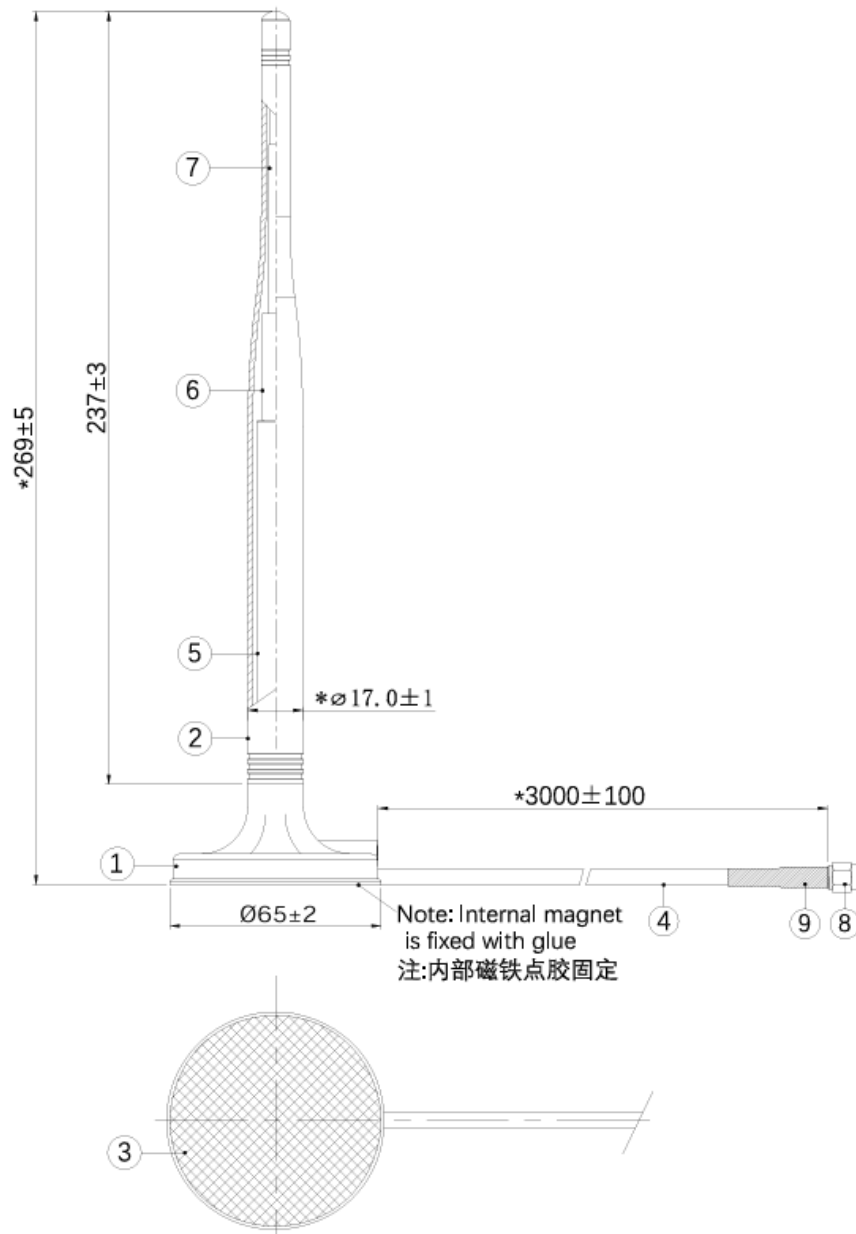
Max: 5
Min: -30
Scale: 5/div

2310
2350
2410

RF Radiation Patterns at 2600MHz



Mechanical Drawing



1.Specification:

Frequency Range:700~960MHz/1710~2700MHz

Impedance:50Ω

VSWR:≤3.0;

2. The connector must pass a 48 hour salt spray test

3.These Products are in conformity with ROHS 2.0;

4.The key dimension is marked with "*".

9	Heat Shrink Tube	Heat Shrink Tube	1
8	CONNECTOR	SMA male	1
7	Copper tube 3	Brass	1
6	Copper tube 2	Brass	1
5	Copper tube 1	Brass	1
4	Cable	RG58 Cable, BLACK	1
3	Adhesive	Foam double-sided adhesive	1
2	TOP	TPEE,Color:BLACK	1
1	BASE	ABS,Color:Black	1

UNIT	FILE:
mm	SHEET: 1/1

Packaging

Antennas packed in PE bag (1 per bag)

Small bag dimensions: 28.5 x 9.5 (cm)

Material Regulation

The antenna has been assessed to conform to RoHS requirements. A certificate of conformance is available upon request.

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