



MB-2450-02

2.4GHz 2dBi with base Antenna



Specification:

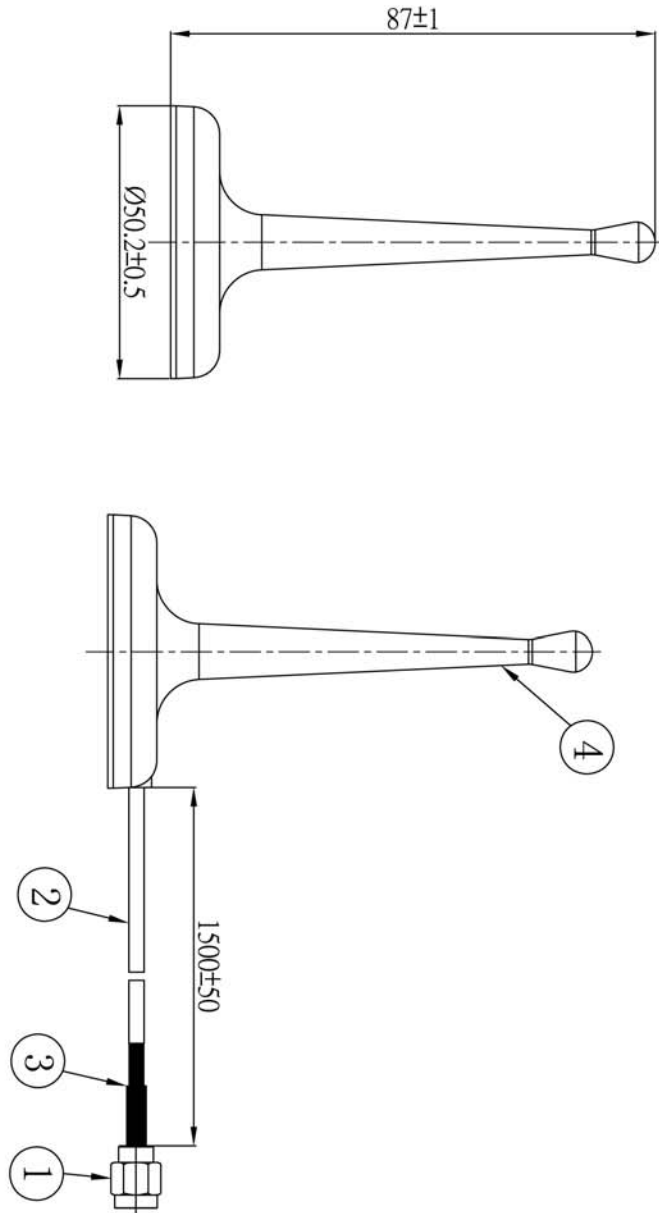
Technical Information	
Item No.	MB-2450-02
Frequency	2400-2500MHz
Gain	2 dBi
Polarization	Vertical
VSWR	$\leq 2.0:1$
Impedance	50 Ω
Dimensions	
Size	H 87 mm
Cable length	RG174/U ,L=1.5M
Weight	45 g
Connector	SMA Type Male



RF Castle Electronics Co., Ltd.

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REV	DESCRIPTION	DRAWN	DATE



4	BODY	1	TPE	BLACK	R&D	* MAJOR DIMENSION	APPROVED	 華城電子有限公司 RF CASTLE ELECTRONICS CO.,LTD			
3	HEAT SHRINK TUBING	1	PVC	BLACK		UNLESS OTHERWISE NOTED TOLERANCES	CHECKED		CASH		
2	CABLE	1	RG174U	BLACK	0.X=±0.1 0.XX=±0.05	L YDIA					
1	SMA MALE	1	BRASS	GOLD		DRAWN	KEVIN				
NO	Description	Qty	Material	Finish							
						SCALE 1/1	UNIT MM	DRAWN DATE 12/05/11	TITLE 2.4GHz 2dBi with base Antenna	DRAWING NO. MB-2450-02	REV A



1. Reliability Testing

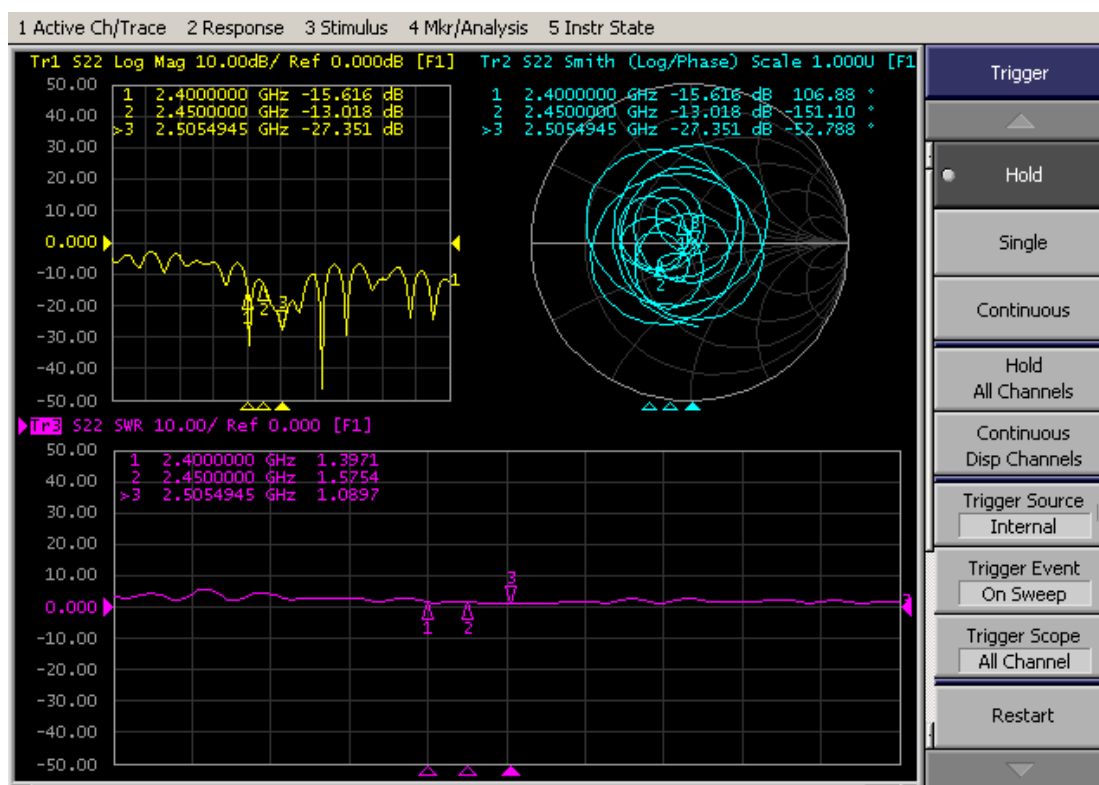
Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 90°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. Freq. Tol.: < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. Freq. Tol. : < ±5%
4. Endurance	24 hours at 90°C	After 2 hours recovery: 1. no visible damage 2. Freq Tol.: < ±5%

2.Specification

A. Electrical Characteristics	
S.W.R.	2400-2500MHz: <= 2.0
Antenna Gain	2.0 dBi
Impedance	50 Ohm
B. Material	
Material of Radiator	Cu (Plated)
Connector Type	SMA
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	-30 °C ~+ 85 °C



3.S Parameter Test data



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4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

