

Specification:

DA-433-01

433MHz 1dBi Dipole Antenna

Technical Information	
Item No.	DA-433-01
Frequency	418-433MHz
Gain	1 dBi
Polarization	Vertical
VSWR	≤ 2.0:1
Impedance	50 Ω
Dimensions	
Size	H 40 mm
Weight	8.5 g
Connector	SMA Type Male



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%

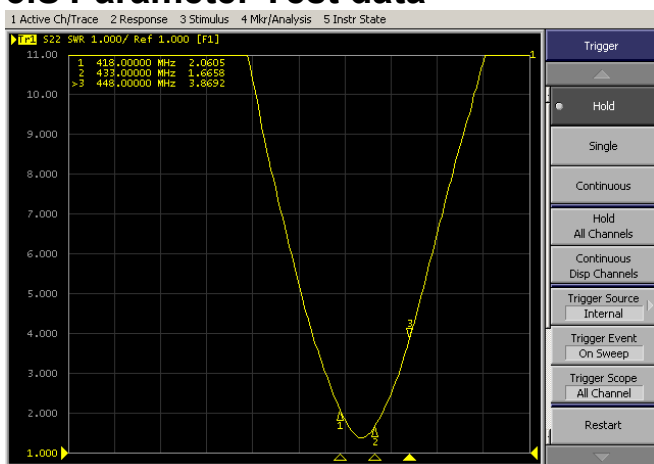
2.Specification

A. Electrical Characteristics	
S.W.R.	433MHz: ≤ 2.0
Antenna Gain	1.0 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

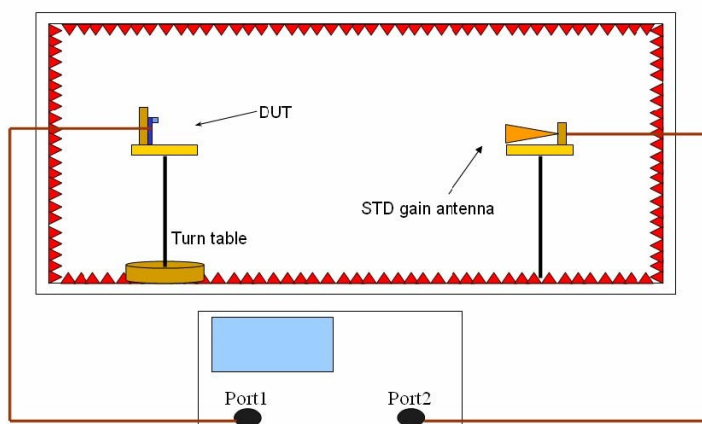
4. Antenna Radiation Pattern

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

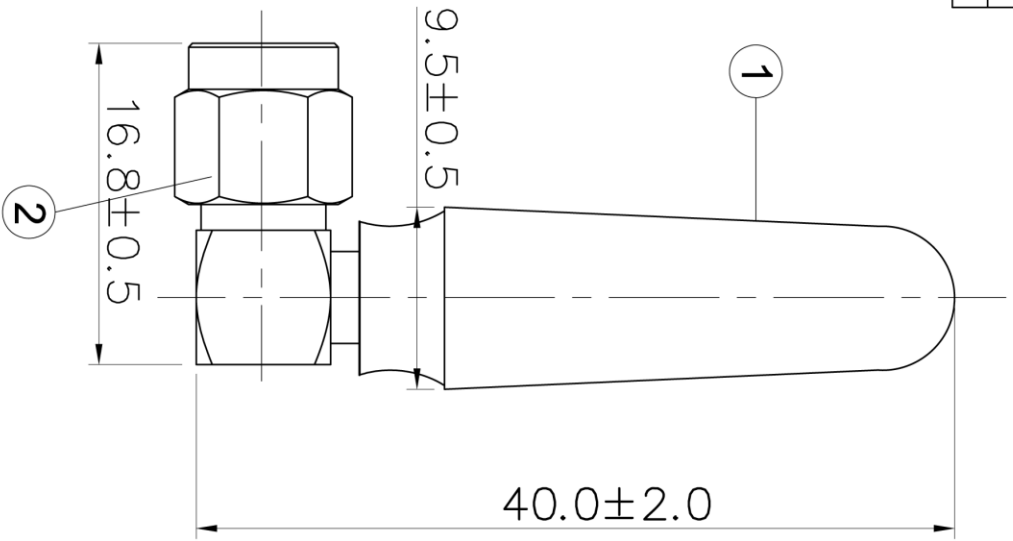
3.S Parameter Test data





Double Ridged Horn Antenna



REV	DESCRIPTION	DRAWN	DATE



NO	Description	Qty	Material	Finish
2	SMA MALE	1	BRASS	GOLD
1	BODY	1	PC+ABS	BLACK

R&D		* MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES 0.X = ±0.1 0.XX = ±0.05		APPROVED CASH		 華城電子有限公司 RF CASTLE ELECTRONICS CO., LTD	
 華城電子 2011.12.05 R&D		SCALE	1/1	UNIT	MM	CHECKED LYDIA	TITLE: 433MHz 1dBi Dipole Antenna
		DRAWN	KEVIN	DRAWN DATE	12/05/11	DRAWING NO.	DA-433-01
		REV	A				