



DA-2450-02-IPEX-01

2.4GHz 2dBi Dipole Antenna with IPEX



Specification:

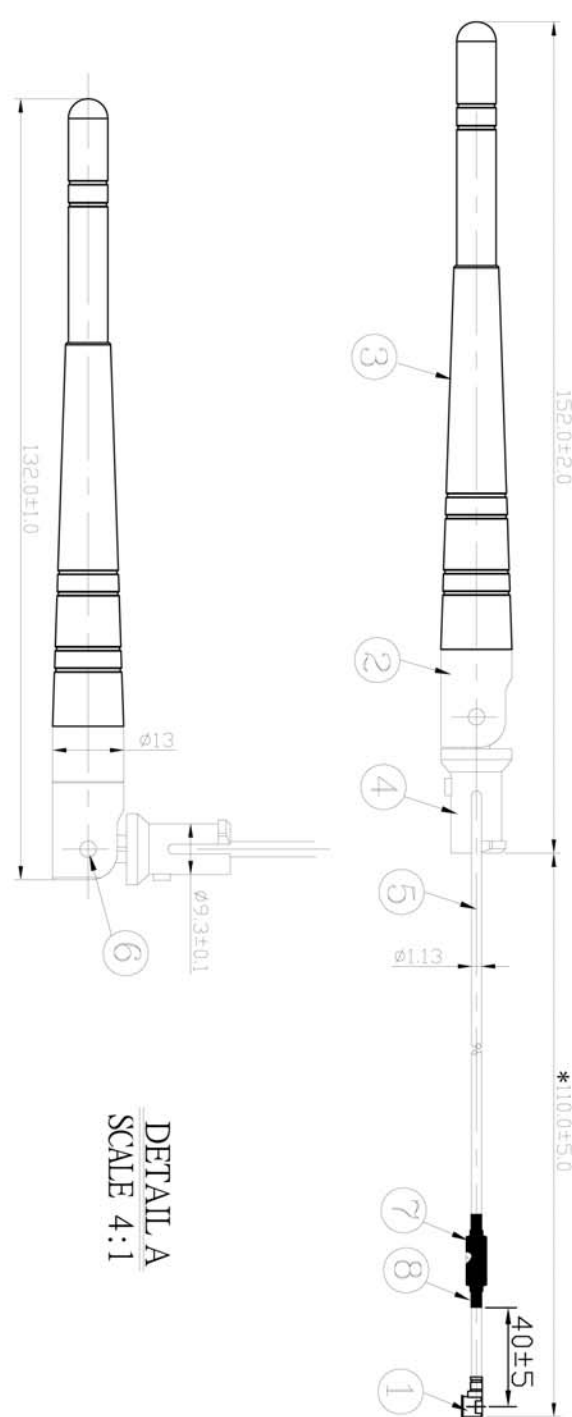
Technical Information	
Item No.	DA-2450-02-IPEX-01
Frequency	2400-2500MHz
Gain	2 dBi
Polarization	Vertical
VSWR	$\leq 2.0:1$
Impedance	50 Ω
Dimensions	
Size	H 132 mm
Cable length	RG1.13cable,L=110mm
Weight	10.5 g
Connector	IPEX

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REV	DESCRIPTION	DRAWN	DATE



8	Heat Shrink Tubing	1	PE	BLACK
7	BODY3	1	FE	BLACK
6	PIN	2	ABS	BLACK
5	CABLE	1	RG1.13mm	BLACK
4	BODY2	1	TPC+PBT	BLACK
3	BODY1	1	TPE	BLACK
2	CONNECTOR	1	ABS	BLACK
1	I-PEX MALE	1	BRASS	Copper plated

NO	Description	Qty	Material	Finish

R&D	* MAJOR DIMENSION UNLESS OTHERWISE NOTED TOLERANCES 0.X=±0.1 0.XX=±0.05	APPROVED CASH	CHECKED LYDIA	TITLE 2.4GHz 2dBi Dipole Antenna with IPEX
SCALE 1/1	UNIT MM	DRAWN DATE 12/05/11	DRAWN KEVIN	DRAWING NO. DA-2450-02-IPEX-01

RF CASTLE 華城電子有限公司	RF CASTLE ELECTRONICS CO., LTD
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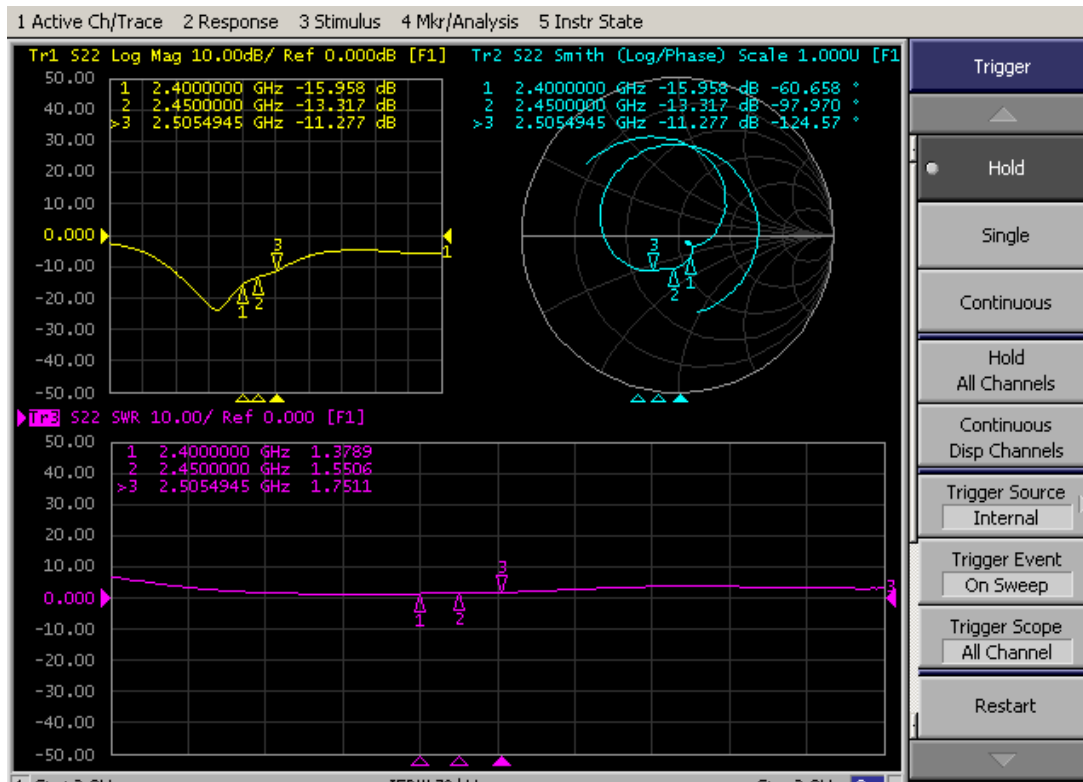
1. Reliability Testing

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	IPEX
C. Environmental	
Operation Temperature	- 30 °C ~ + 85 °C
Storage Temperature	-30 °C ~+ 85 °C

3.S Parameter Test data



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

