

APPROVAL SHEET

CUSTOMER：上億國際科技股份有限公司

MODEL NO.：IW-151N-414

DESCRIPTION：2.4GHz Swivel Antenna

Customer Approval

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士誼科技事業股份有限公司
JOYMAX ELECTRONICS CO.,LTD.

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1.Description:

The antenna is a swivel and $1/4 \lambda$ dipole antenna. It's useful for the ISM Band of 2.4~2.5 GHz.

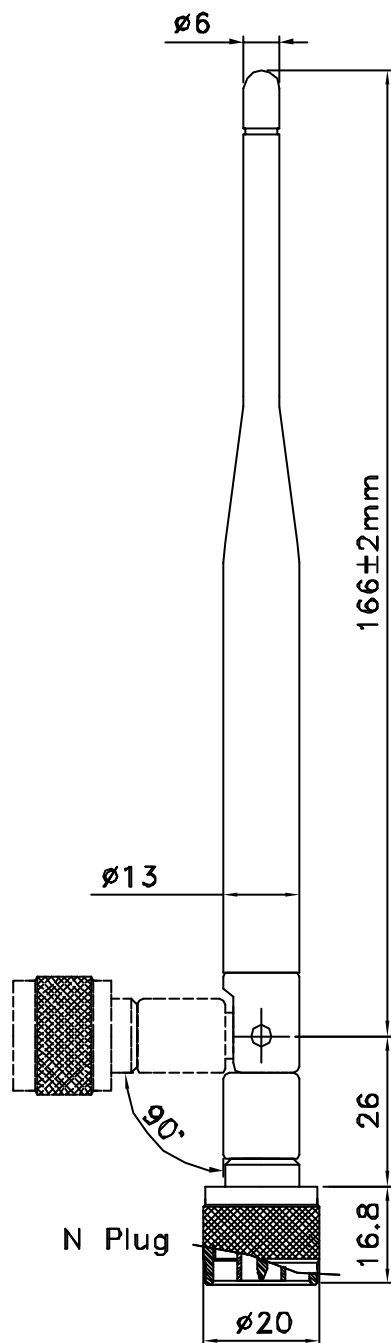
2. Electrical Properties

2-1 Frequency Range.....	2.4~2.4835GHz
2-2 Impedance.....	50 Ohms nominal
2-3 S.W.R.	≤ 2.0
2-4 Return Loss.....	≤ -10 dB
2-5 Gain.....	5.0 dBi
2-6 Polarization.....	Vertical
2-7 Admitted Power.....	1W
2-8 Electrical Wavelength....	$1/4 \lambda$ Dipole

3. Mechanical Properties :

3-1 Connector.....	N Plug
3-2 Antenna Cover.....	Polyurethane
Antenna Base.....	Polycarbonate
3-3 Rotating Test.....	1.2 Kg-cm, After 2000 cycles with the rate of 30 cycles/minute (max.). It shall be possible to remain it's position.
3-4 Attachment Strength.....	5.0 Kg (30 minutes)





TOLERANCES:	
X	± 1
X.X	± 0.5
X.XX	± 0.25
ANG.	± 2.0°

REV DESCRIPTION		MATERIAL	MODEL: IW-151N-414		
		FINISH	NAME: Swivel Antenna		
		UNIT: mm	PART No: IW-151N-414		
		SCALE: 1.3/1	DESIGN	APPROVE	REV
		DATE: 12/16/2003	Meg Lee		00

QP0502-01-02

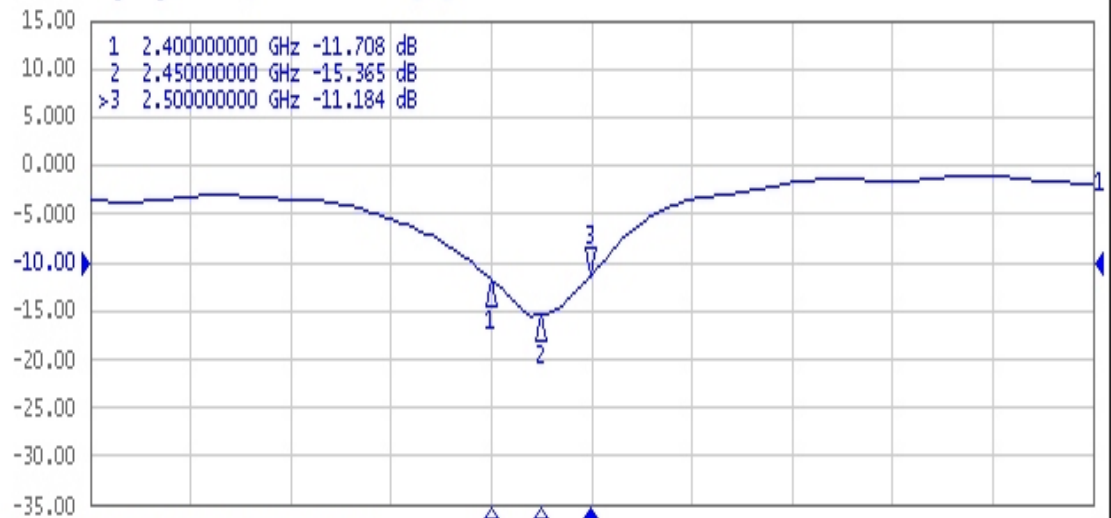


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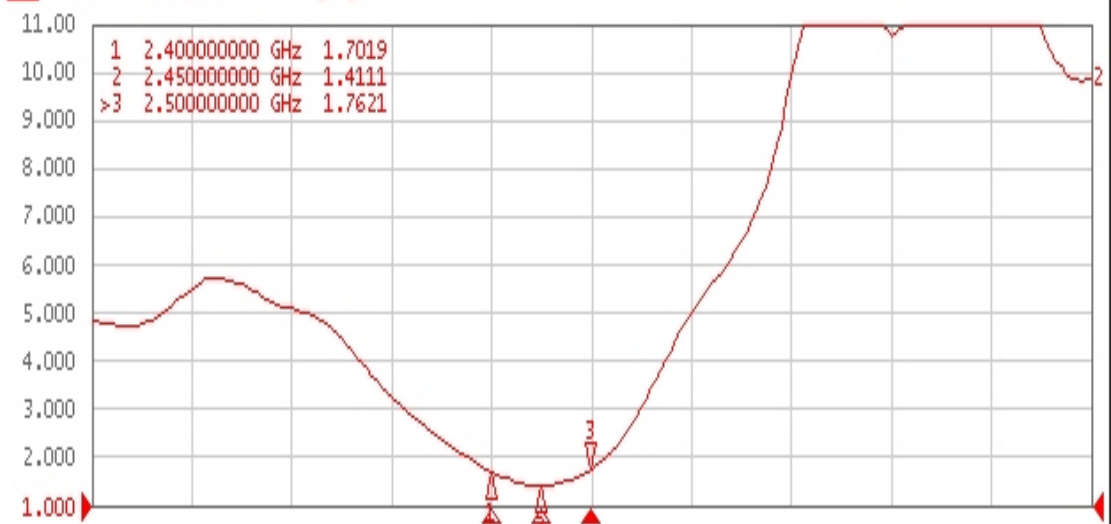
**Return
Loss**

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Tr1 S22 Log Mag 5.000dB/ Ref -10.00dB [R0]

**S.W.R.**

Tr2 S22 SWR 1.000/ Ref 1.000 [R0]



2 Start 2 GHz

IFBW 70 kHz

Stop 3 GHz Cor



1.Description:

The connector is a N plug clamp for RG213 cable.

2. Electrical Properties

2-1 Impedance.....	50 Ohms
2-2 Frequency Range.....	0~8 GHz
2-3 SWR.....	1.1 (Max.)
2-4 Working Voltage.....	≤250 Vrms
2-5 Dielectric Withstanding Voltage.....	≤750 Vrms
2-6 Insulation Resistance.....	≥3000 Megohms
2-7 Contact Resistance.....	Center contact: 1.0 Milliohms (Max.) Outer contact: 1.0 Milliohms (Max.)
2-8 Insertion Loss.....	0.3 dB

3. Mechanical Properties :

- 3-1 Recommended coupling nut torque.. 4.1 in.lbs.~10.0 in.lbs.
- 3-2 Coupling nut retention force..... ≥ 50 lbs.
- 3-3 Contact captivation axial..... ≥ 5 lbs.

4. Environmental Ratings

- 4-1 Operating Temperature..... -65°C ~ +165°C
- 4-2 Thermal Shock..... MIL-STD-202, Method 107, Condition B
- 4-3 Corrosion..... MIL-STD-202, Method 101, Condition B
- 4-4 Shock..... MIL-STD-202, Method 213, Condition I
- 4-5 Vibration..... MIL-STD-202, Method 204, Condition B
- 4-6 Moisture Resistance..... MIL-STD-202, Method 106

5. Material Specifications

- 5-1 Body..... Brass Per JIS H3250 C3604 BD, Plated.
- 5-2 Contact..... Beryllium Copper Per QQ-C-530, Gold Plated
Per MIL-G-45204
- 5-3 Insulator..... PTFE Fluorocarbon Per ASTM D 1710

