

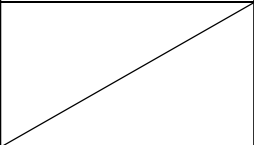
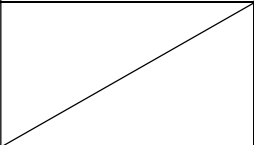
DOC. NO	C-070501	ANTENNA SPECIFICATIONS	REV. NO	0
Issued Date	2007-03-15		Page	1/6

Product Name : 27MHz Band 1/4λ Monole Antenna

Model Name: ST-50N

Contents

1. Descriptions
2. Application
3. Antenna Shape
4. Electrical Performance
5. Mechanical Specifications
6. Environmental Performance
7. Attachment

Release				
Sign.	Written	Checked	Checked	Approved
	J.R.Park			
Date	2007-5-7			

Model	ST-50N	ANTENNA SPECIFICATIONS	Docu-NO	C-070501
Code NO			Rev-NO	0
Customer			PAGE	2/6

1. Descriptions

This monopole Antenna has the 1/4wavelength helical coil elements on the plastic bobbin covered TPE, designed for 27MHz band wireless communication unit.

2. Application

☒ Hand Held ☒ Fixed ☐ Mobile ☒ Out Door ☒ In Door ☐ Others

3. Antenna Shape

See attached

4. Electrical Performance

4.1 Frequency Range

27 MHz Band (Fc=26.75MHz)

4.2 Impedance

Nominal Value 50 Ohm

4.3 V.S.W.R

Less than 1 : 7.0 (at Fc)

4.4 Antenna Radiation Pattern

Omni-Directional

4.5 Antenna Polarization

Vertical

Model	ST-50N	ANTENNA SPECIFICATIONS	Docu-NO	C-070501
Code NO			Rev-NO	0
Customer			PAGE	3/6

4.6 Antenna Gain (dBi)

Unity (-28dBi)

5. Mechanical Specifications

5.1 Element

Material	φ0.10 Cu
Finish	UEW
Electrical Length	1/4 Wavelength

5.2 Connector

Type	Stud (M6x0.75)
Material	Brass
Finish	Ni-plating

5.3 Bobbin

Material	PA 66
Finish	-

5.4 Sleeve

Material	TPE
Finish	Black

5.5 Antenna total length

See Attached

5.6 Antenna Weight

11 gram

Model	ST-50N	ANTENNA SPECIFICATIONS	Docu-NO	C-070501
Code NO			Rev-NO	0
Customer			PAGE	4/6

6. Environmental Resistance Performance

6.1 Operating Temperature

– 30℃ ~ 70℃

6.2 Storage Temperature

– 40℃ ~ 80℃

6.3 Humidity

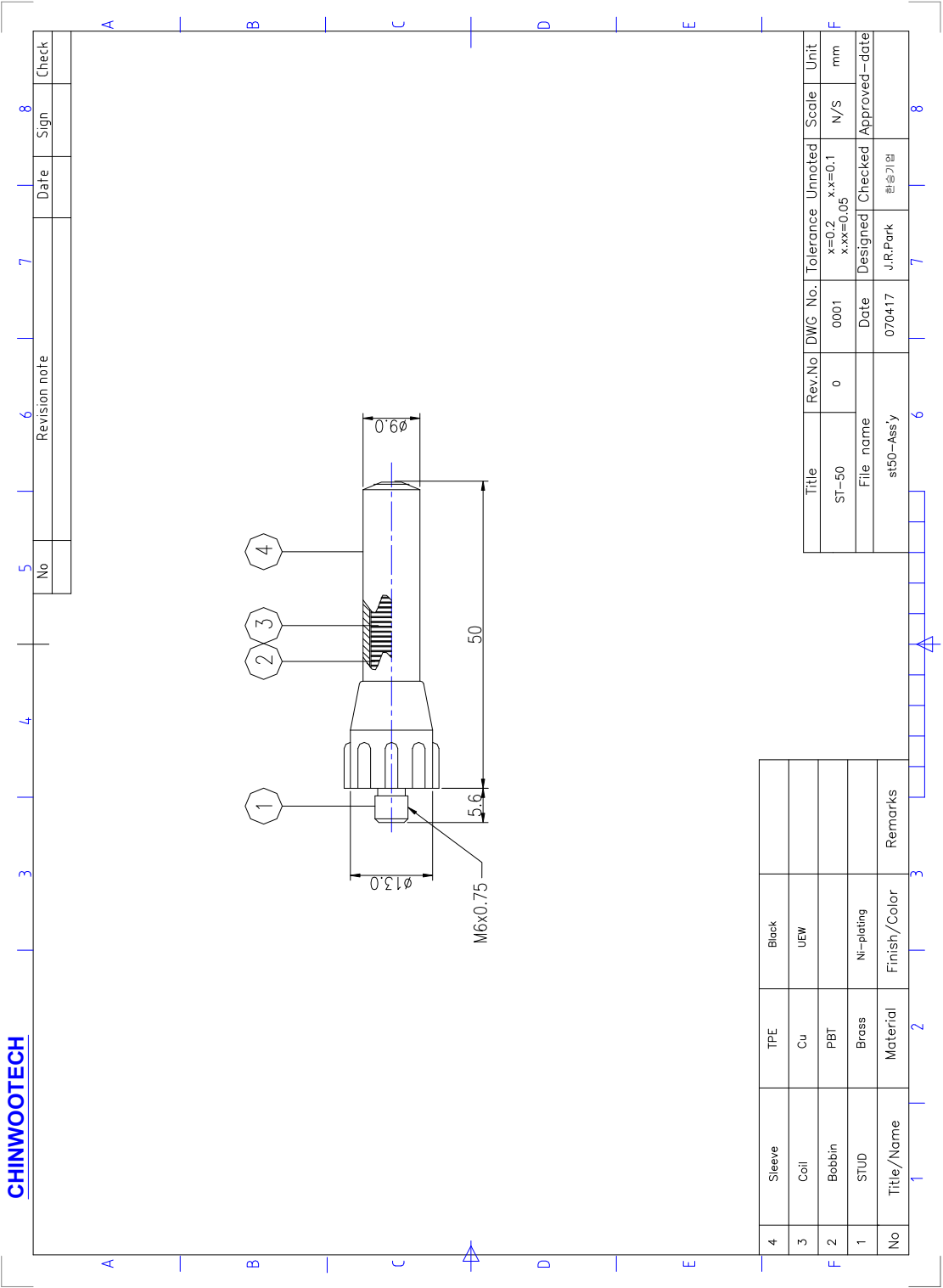
95% RH / 50℃

7. Attached

1. Antenna Specifications Drawing
 2. Antenna Performance Data
- . V.S.W.R

Model	ST-50N	ANTENNA SPECIFICATION	Docu-NO	C-070501
Code NO			Rev-NO	0
Customer			PAGE	5/6

[Attached] 1. Antenna Specifications Drawing



Model	ST-50N	ANTENNA SPECIFICATION	Docu-NO	C-070501
Code NO			Rev-NO	0
Customer			PAGE	6/6

2. Antenna Performance Data

(Test Equipment : HP-8753ES)

- VSWR

