

IG.0076.LS.0SA

Antenna Specification

Antenna:345Mhz,metal antenna L38.5mm*D8.3

1.Application:

This application shall apply for antenna unit which shall be used such as automotive, conventional communications, smart home, etc..

2. Electrical Specification:

Those specifications were specially defined for **customer's** model, and all characteristics were measured under the model's handset testing jig.

2-1. Frequency Band:

Frequency Band	MHz
345MHZ	345

2-2. Impedance

50 ohm nominal

2-3. VSWR

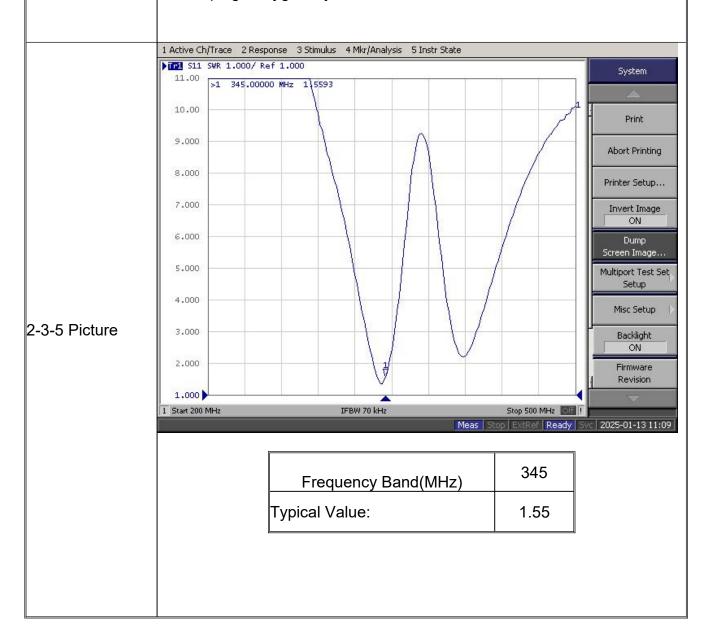
2-3-1. Measurement frequency points and VSWR value

UNLESS OTHER SPECIFIE	ED TOLERANCES ON:		JIA DE WIRELESS TECH	HNOLOGY
$X=\pm$ X.X=	$=\pm$ X.XX $=\pm$	(B) (M) X 14 24 12	(SZ)CO.,LIMITED	
ANGLES=±	HOLEDIA=±			
SCALE:	UNIT: mm		GS AND SPECIFICATIONS ARE THE PROPER	
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED. THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS (
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITI	HOUT PERMISSION	
TITLE: IG.0076.0SA Anter	nna Specification ROHS			SPEC REV.
TITLE: 10.0070.00A AIRE	ma opecinication itorio			PΩ



2-3-4 Measuring Method

- 1. A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR.
- 2. Keeping this jig away from metal at least 20 cm



UNLESS OTHER SPECIFIED	TOLERANCES ON:		JIA DE WIRELESS TECHNOLOGY
$X=\pm$ $X.X=$	\pm X.XX= \pm	ほ徳天践科技	(SZ)CO.,LIMITED
ANGLES=±	HOLEDIA=±		
SCALE: UNIT: mm This drawings and specifications are the property of			
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USE THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS	
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITH	HOUT PERMISSION
TITLE: IG.0076.0SA Anteni	na Specification ROHS		SPEC REV.
THEE: 10.0070.00A AIREIN	a opecification (Corio		P0

PAGE 2 **OF** 11

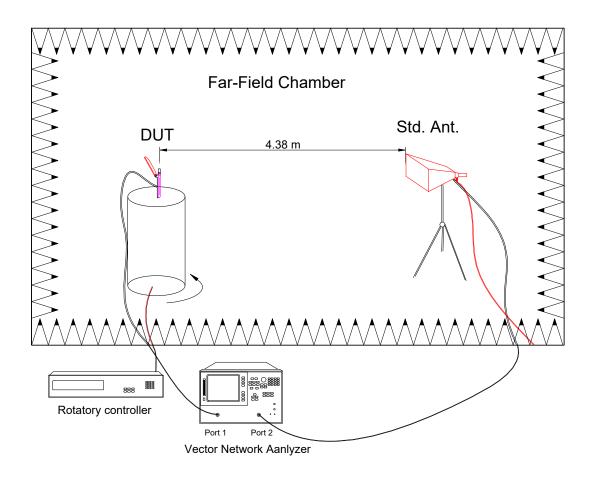


2-4. Efficiency and Gain

4-5.1 Measure method

- 1. Using a low loss coaxial cable to link a standard handset jig
- 2. Fixed this handset jig on chamber's rotator plane
 - 3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
- 4. Using another standard gain horn antenna to calibrated those data

4-5.2 Chamber definition



- 1. An anechoic chamber (7mx4mx3m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite room region is 40cmx40cmx40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 4.38 m

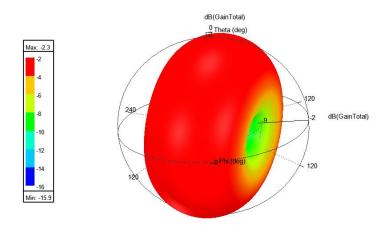
UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=±		JIA DE WIRELESS TECHNOLOG (SZ)CO.,LIMITED		
ANGLES=±	HOLEDIA =±	San San Art. Company San		
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF		
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR		
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITHOUT PERMISSION		
TITLE: IG.0076.0SA Antenna Specification ROHS				
TITLE: 13.0070.03A AIILEIN	ia opecification Nono	P0		



3. 3D and Gain

	Freq [MHz]	dB(PeakGain) Setup1 : LastAdaptive	RadiationEfficiency Setup1 : LastAdaptive
1	345.000000	-2.242009	0.360573

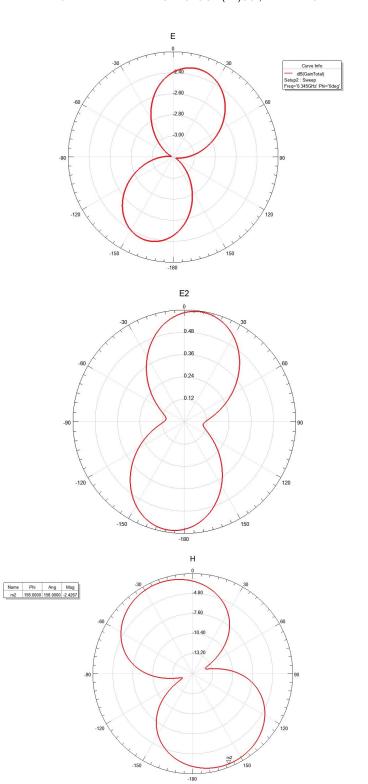
Frequency Band(MHz)	345
Gain	-2.24db



UNLESS OTHER SPECIFIED TOLERANCES ON:			E WIRELESS TECHNOLOGY	
$X=\pm X.X=$	$=\pm$ X.XX $=\pm$	佳徳天践科技 (SZ)CO	.,LIMITED	
ANGLES=±	HOLEDIA =±			
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KING		
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS		
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITHOUT PERMISSION		
TITLE: IG.0076.0SA Anter	SPEC REV.			
TITLE: 13.0070.03A AIILEI	ilia opecification Rono		P0	

PAGE 4 **OF** 11





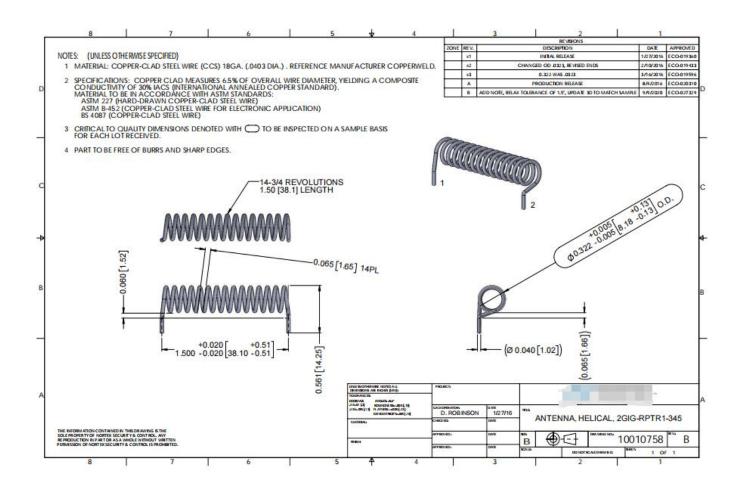
UNLESS OTHER SPECIFIED TOLERANCES ON:		JIA DE WIRELESS TECHNOLOG		INOLOGY
$X=\pm$ X.X=	\pm X.XX= \pm	(E)(III X 14) F4 F4 F8	(SZ)CO.,LIMITED	
ANGLES=±	HOLEDIA =±			
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KIN TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USE THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS		
DRAWN BY: LU	CHECKED BY: YS			
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITH	HOUT PERMISSION	
TITLE: IG.0076.0SA Anteni	na Specification ROHS			SPEC REV.
TITLE: 13.0070.00A AIREIN	The Openineation Notice			P0



4. Mechanical Specification:

5-1. Mechanical Configuration (Unit: mm)

The appearance of the antenna is according to drawing



6.ENVIRONMENT AND RELIABILITY TEST

UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=±		JIA DE WIRELESS TECHNOLOG (SZ)CO.,LIMITED		
ANGLES=±	HOLEDIA=±			
SCALE:	: UNIT: mm This drawings and specifications are the property of			
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR		
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITHOUT PERMISSION		
TITLE: IG.0076.0SA Anteni	na Specification ROHS	SPEC REV.		
TITLE: 13.0070.00A AIItem	na opecinication Rollo	P0		

PAGE 6 **OF** 11



Item	Reference standard, experimental conditions	Judgments based	Number of samples / bad quantity(PCS)	Test/equi- pment
Collision	GB/T 2423.6-1995 Acceleration: 200m / s2 Collision pulse duration: 6ms Number of collisions per minute: 40~80 times Total number of collisions: 400 times in the vertical direction, before and after, 300 times in the horizontal direction, 1000 times in total.	The electrical characteristics should be met, and the mechanical properties are normal, but the appearance of scratches, whitening and bending are within the allowable range.	5/0	Collision experiment machine
vibration	GB/T 2423.10-1995 Test FC Frequency: 10~30; 30~50Hz; Resonance point amplitude: 0.35mm Amplitude: 0.75mm Duration: X, Y & Z 0.5 hours in each direction. Period: 1min; Tested after 1 hour of experimentation.	And the firmware is not loose, the parts are not broken or fatigued; No original parts fall off, no solder joint breaks; Electrical performance indicators meet technical specifications;	5/0	Vibration tester

UNLESS OTHER SPECIFIED TOLERANCES ON:		JIA DE WIRELESS TECHNOLOGY	
$X=\pm$ X.X	$=\pm$ X.XX $=\pm$	(SZ)CO.,LIMITED	
ANGLES=±	HOLEDIA =±		
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRE	
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR	
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITHOUT PERMISSION	
TITLE: IG.0076.0SA Ante	nna Specification ROHS	SPEC REV.	
11122: 10:0070:00A Anto	ina opcomounon Rono	P0	

PAGE 7 **OF** 11



Shock	Acceleration: 300m / s2 Shock pulse duration: 18ms Number of impacts: 18 times GB/T 2423.5-1995	The electrical characteristics should be met, and the mechanical properties are normal, but the appearance of scratches, whitening and bending are allowed.	5/0	Crushing machine
fall	GB/T2423.8-95 Dropped from the height of 100cm to the floor 10 times. GB/T2423.8-95	1. No obvious abnormal appearance 2. After the test, the electrical performance meets the specification requirements, and the electrical characteristics should be met, and the mechanical properties are normal, but the appearance of the bumps, whitening and bending are within the allowable range.	5/0	Drop test machine
High temperatu re storage	GB/T 2423,2-2001 Test B Environmental conditions: +85 ± 3°C for 96H The test was completed after standing at room temperature for 24 hours.	The surface coating shall be free from flaking, cracking, separation, etc.; Non-metallic structural parts have not undergone permanent deformation, cracking, degumming, etc.; Mobile components are not stuck or disconnected; Electrical performance indicators meet	10/0	Temperatur e and humidity cycle test box

UNLESS OTHER SPECIFIED TOLERANCES ON:			JIA DE WIRELESS TECHNOLOGY
$X=\pm$ X.X	$=\pm$ X.XX= \pm	(集) (大) (大) (大) (大) (大)	(SZ)CO.,LIMITED
ANGLES=±	HOLEDIA =±		
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KIN TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USE! THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS DEVICES WITHOUT PERMISSION	
DRAWN BY: LU	CHECKED BY: YS		
DESIGNED BY: JIN TIAN	APPROVED BY: YS		
TITLE: IG.0076.0SA Ante	enna Specification ROHS		SPEC REV.
111EE: 10.0070.00A AIRE	enna opecinication Norio		D0

PAGE 8 **OF** 11



		technical specifications		
Low temperatu re storage	GB/T 2423.1-2001 Test A Environmental conditions: -40 ± 3°C for 96H The test was completed after standing at room temperature for 24 hours.	The surface coating shall be free from flaking, cracking, separation, etc.; Non-metallic structural parts have not undergone permanent deformation, cracking, degumming, Mobile components are not stuck or disconnected; Electrical performance indicators meet technical specifications	10/0	Temperatur e and humidity cycle test box
High and low temperatu re cycle	GB/T2423.22-2002 Test N: The antenna was placed in a T1 = -40 °C incubator for 30 minutes, then the temperature was increased to T2 = 80°C for 60 minutes, then the temperature was maintained for 30 minutes, and the relative humidity was 50% RH, and the cycle was repeated 20 times.	The surface coating shall be free from flaking, cracking, separation, etc.; Non-metallic structural parts have not undergone permanent deformation, cracking, degumming, etc.; Mobile components are not stuck or disconnected; Electrical performance indicators meet technical specifications	10/0	Temperatur e and humidity cycle test box

UNLESS OTHER SPECIFIED TOLERANCES ON: X=± X.X=± X.XX=±		JIA DE WIRELESS TECHNOI (SZ)CO.,LIMITED	
ANGLES=±	HOLEDIA=±	THE THE PERSON NAMED IN	
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF K TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR US THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATU	
DRAWN BY: LU	CHECKED BY: YS		
DESIGNED BY: JIN TIAN	APPROVED BY: YS		
TITLE: IG.0076.0SA Anteni	na Specification ROHS		SPEC REV.
TITLE: 13.0070.00A AIREIN	ia opecinication Rono		P0

PAGE 9 **OF** 11



Damp heat test	GB/T 2423.3-1993 test Ca: Environmental conditions: 40 ± 2 °C, relative humidity 80 ~ 90%, placed for 96 hours. The test was completed after standing at room temperature for 24 hours.	1. No obvious abnormality in appearance 2. Various electrical properties after test Meet the specifications, mechanical performance, electrical performance to meet the specifications.	10/0	Temperatur e and humidity cycle test box
Salt spray test	GB/T 2423.18-2000 Test Kb The test article was placed in a salt spray test chamber, and the test specimen was sprayed with salt at a concentration of (5 ± 1)%, a temperature of 35°C±1°C, and a sedimentation rate of (1-2) ml/50 mm 2*h, 48 hours. After that, check the appearance.	No rust, mechanical properties and electrical properties meet the specifications.	5/0	Salt spray test machine

UNLESS OTHER SPECIFIED TOLERANCES ON:		JIA DE WIRELESS TECHNOLOGY
$X=\pm$ X.	$X=\pm$ $X.XX=\pm$	(SZ)CO.,LIMITED
ANGLES=±	HOLEDIA =±	
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KINGRF
DRAWN BY: LU	CHECKED BY: YS	TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS OR
DESIGNED BY: JIN TIA	N APPROVED BY: YS	DEVICES WITHOUT PERMISSION
TITLE. IG 0076 0SA An	tenna Specification ROHS	SPEC REV.
111 LL: 10.0070.00A AII	terma opecinication Nono	P0

PAGE



5.PACKING INSTRUCTION

Product number: xxx

Product model: xxx

-, Label requirements:

Customer	xxx		
supplier	xxxxx		
Material coding	хх		
Product model	xx		
Number	XXX PCS	Factory date	xxx
Remarks			

二、Boxing:

Job description:

1. Inner packaging:

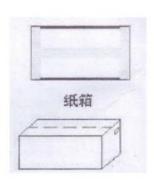
XXpcs A bag

2. External packaging:

Xx PCS ;

- 3. Matters needing attention:
 - a. Whether to add partition and pearl cotton;
 - b. Label attachments, such as ROHS, etc.;





UNLESS OTHER SPECIFIED TOLERANCES ON:			JIA DE WIRELESS TECHNOLOGY	
$X=\pm$ X.X=	$=\pm$ X.XX $=\pm$	(连锁天)转科技	(SZ)CO.,LIMITED	
ANGLES=±	HOLEDIA =±			
SCALE:	UNIT: mm	THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF KING TECHNOLOGY CO.,LTD.AND SHALL NOT BE REPRODUCED OR USED THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATUS		
DRAWN BY: LU	CHECKED BY: YS			
DESIGNED BY: JIN TIAN	APPROVED BY: YS	DEVICES WITHOUT PERMISSION		
TITLE: IG.0076.0SA Anter	nna Specification ROHS		SPEC REV.	
TITLE: 10.0070.00A AIRCI	ma opecimeation itemo		P0	

PAGE