

APPROVAL SHEET

CUSTOMER : 兆赫電子

I/O NO. : W205-108-D200

DESCRIPTION : 2.4G ANTENNA WITH RP
SMA COLOR BLACK

ZWX-G361

841001000303

Signed By Customers

Approved By:

蔡裕恭 6/23



供應商: 垠旺精密股份有限公司

TEL:02-2917-7528

FAX:02-2912-1659

台北縣新店市寶興路37號3樓

SPECIFICATION

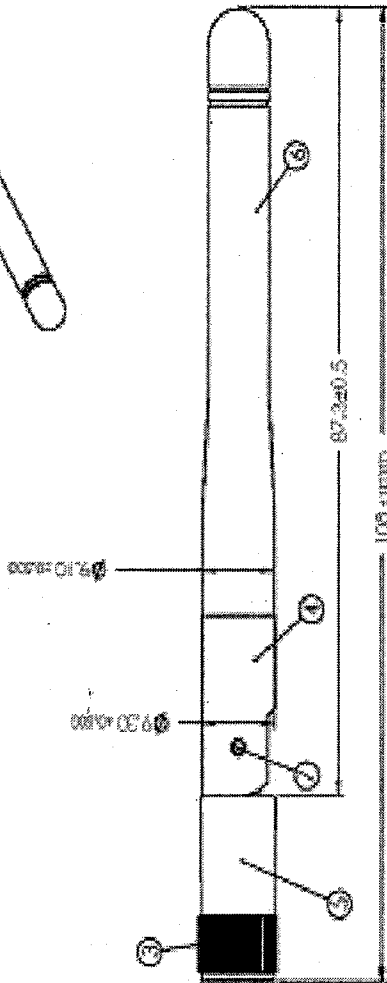
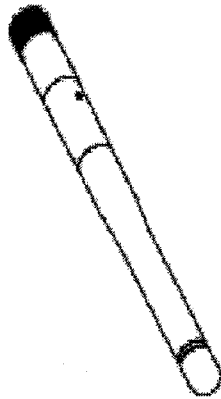
1. Electrical Properties

- 1-1 Frequency Range2.4~2.5GHz
- 1-2 Impedance.....50 Ohms nominal
- 1-3 V.S.W.R.....2.0 (Max.)
- 1-4 Return Loss.....-10.0 dB(Max.)
- 1-5 Max. Gain.....2.0dBi
- 1-6 Polarization..... Vertical
- 1-7 Admitted Power.....1W
- 1-8 Electrical Wave.....1/4 λ Dipole

2. Mechanical Properties

- 2-1 Connector.....Reverse SMA Plug
 - Cable.....RG178
- 2-3 Antenna Body.....T.P.R.
- 2-4 Operating Temperature Range.....-20• •~ +50• •
- 2-5 Storage Temperature Range.....-20• •~ +50• •

成品圖



ELECTRICAL PERFORMANCE :

- 1. Impedance : 50 ohms
- 2. Frequency Range : 2.4--2.5 GHz
- 3. VSWR : 2.0 maximum
- 4. Gain: 1.5db

7	鍍金層	Base	鍍金層
6	銅線	TPR	Black
5	塑膠殼	ABS	Black
4	互鎖螺絲	PCARES	Black
3	SMA母頭	Base	鍍金層
2	螺絲	Base	鍍金層
1	主體	Base	鍍金層

ITEM DESCRIPTION MATERIALS FINISHED

D	SEE ECM	03-351	YCHG	ZHONG/12	TITLE	SMA Plug 2.4-2.5GHz Antenna	10
B	SEE ECM	02-373	YCHG	19/02/2002	DATE	15/1	
A	NEW RELEASE	02-323	YCHG	09/05/2002	DATE	W205-108-D200	
I	SCHEM	02-236	YCHG	09/07/2002	DATE	REV D	
REV	DESCRIPTION	ECN	DRAWN	DATE	REVISIONS	W205-108-D200	

Return Loss

HILTRON

360 NETWORK ANALYZER

MODEL: W205_108D200 DATE: 07/28/2003
 DEVICE ID: OPERATOR: YANG

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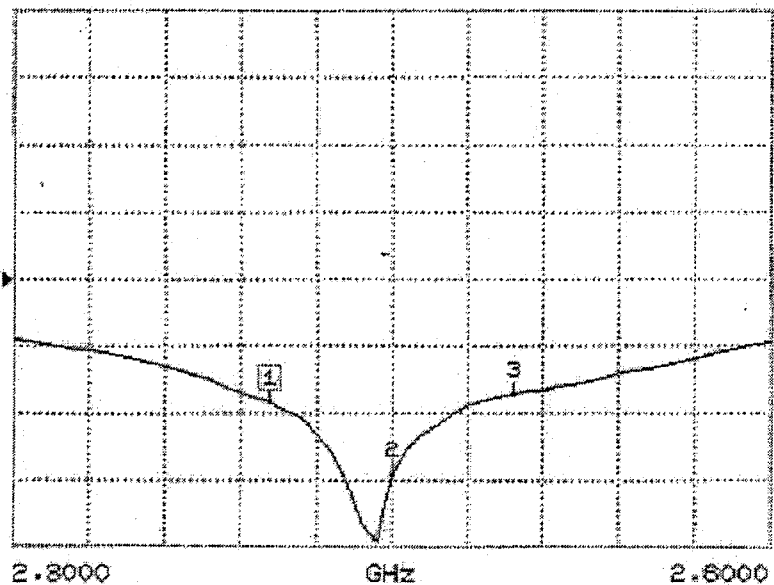
SWEEP DATA

START:	2.3000 GHz	GATE START:	-	ERROR CORR:	REFL ONLY
STOP:	2.6000 GHz	GATE STOP:	-	AVERAGING:	1 PTS
STEP:	0.0060 GHz	GATE:	-	IF BNDWIDTH:	REDUCED
		WINDOW:	-		

----- CH1 -----
 PARAMETER: S11
 NORMALIZATION: OFF
 REFERENCE PLANE: 0.0000 mm
 SMOOTHING: 0.0 PERCENT
 DELAY APERTURE: -

S11 FORWARD REFLECTION

LOG MAG. REF=0.000dB 10.000dB/DIV



CH 1 - S11
 REF. PLANE
 0.0000 mm

MARKER 1
 2.4020 GHz
 -18.367 dB

MARKER TO MAX
 MARKER TO MIN

2 2.4500 GHz
 1 -29.133 dB

3 2.4980 GHz
 1 -17.029 dB

E - Plane Test Report

IO ANTENNA PATTERN

ANTENNA TEST NO. W205-108-D200

TEST DATE:2003/10/13

TEST FREQUENCY:2400MHz

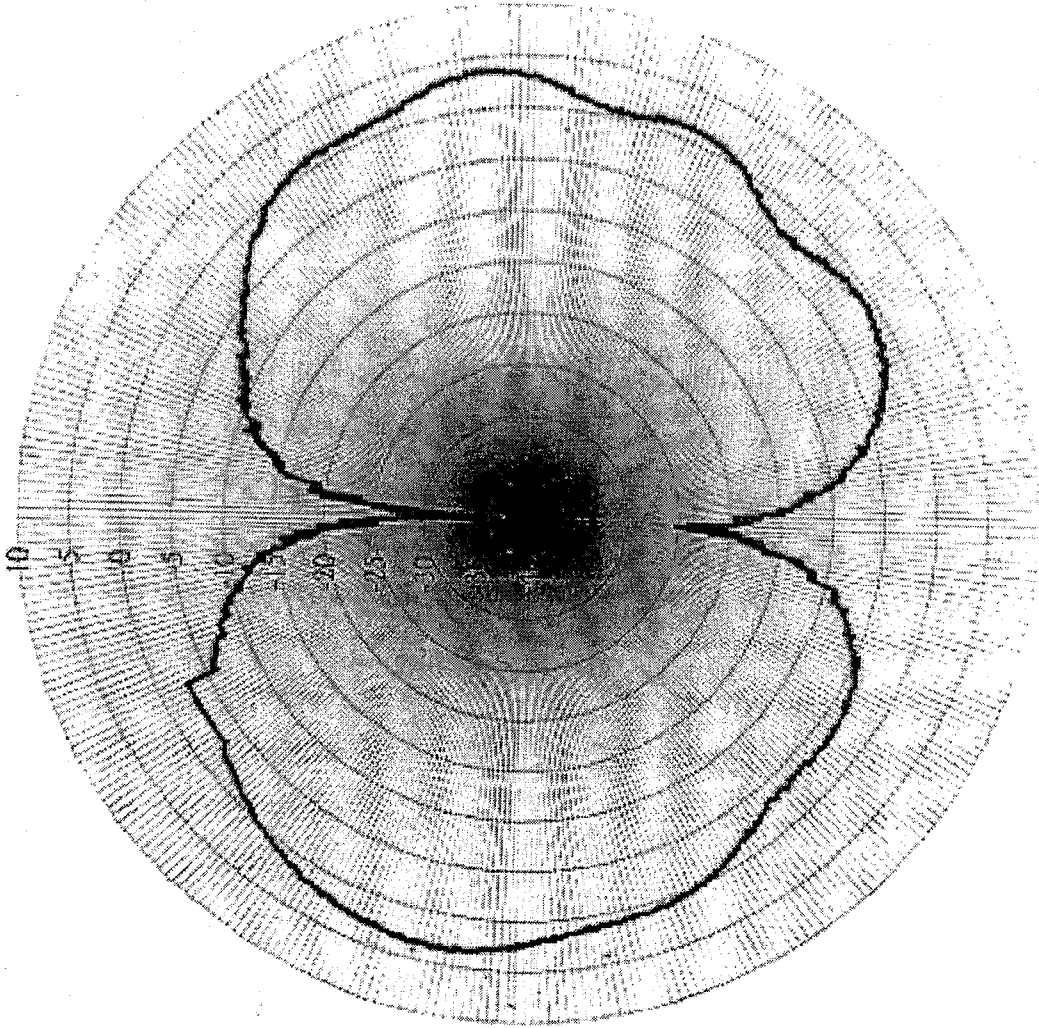
TEST POLARIZATION:HORIZONTAL
(E-PLANE)

TEST ANTENNA:HORN ANTENNA

TEST CHAMBER:RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN: 3.75 dBi
MIN GAIN: -37.60 dBi
AVE GAIN: -3.62 dBi



E - Plane Test Report

IO ANTENNA PATTERN

ANTENNA TEST NO. W205-108-D200

TEST DATE: 2003/10/13

TEST FREQUENCY: 2500MHz

TEST POLARIZATION: HORIZONTAL
(E-PLANE)

TEST ANTENNA: HORN ANTENNA

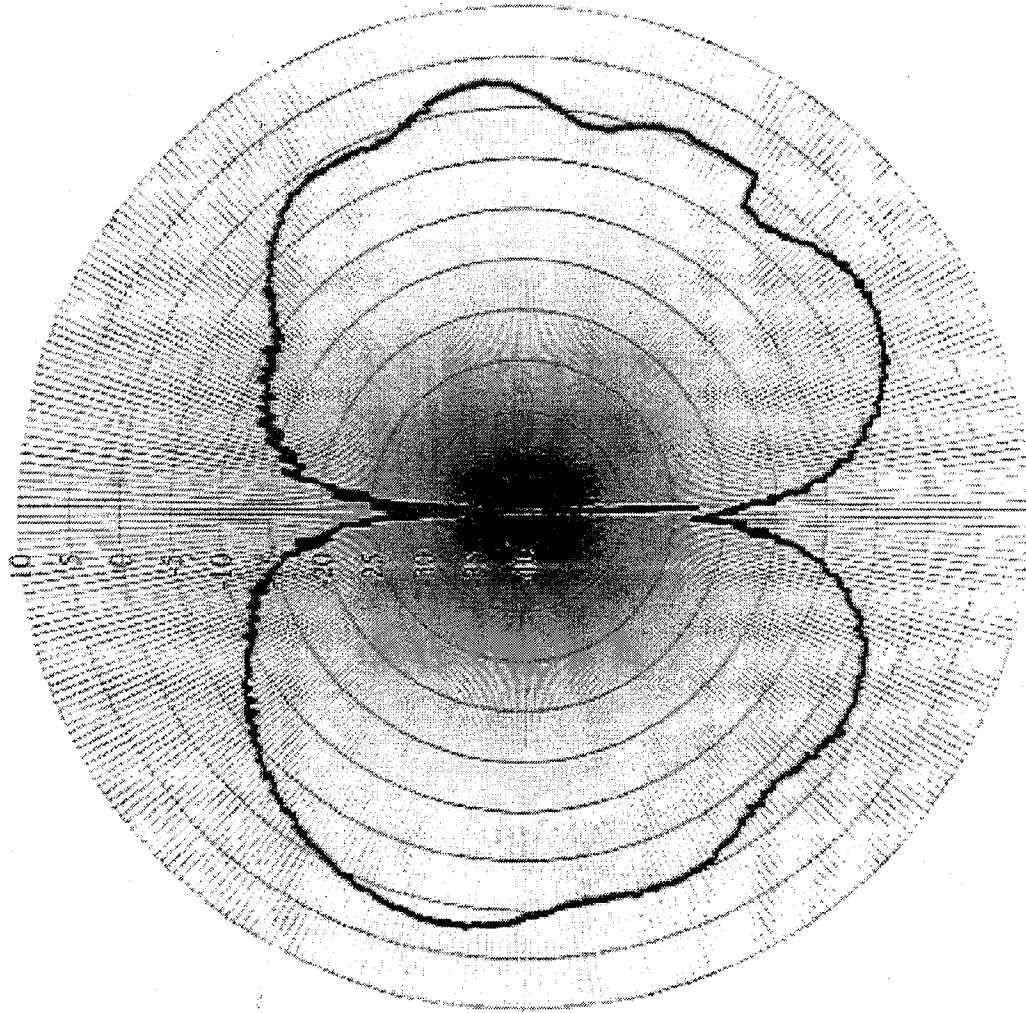
TEST CHAMBER: RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN: 2.61 dBi

MIN GAIN: -57.17 dBi

AVE GAIN: -4.92 dBi



H-Plane Test Report

10 ANTENNA PATTERN

ANTENNA TEST NO. W205-108-D200

TEST DATE: 2003/10/12

TEST FREQUENCY: 2400MHz

TEST POLARIZATION: VERTICAL
(H-PLANE)

TEST ANTENNA: HORN ANTENNA

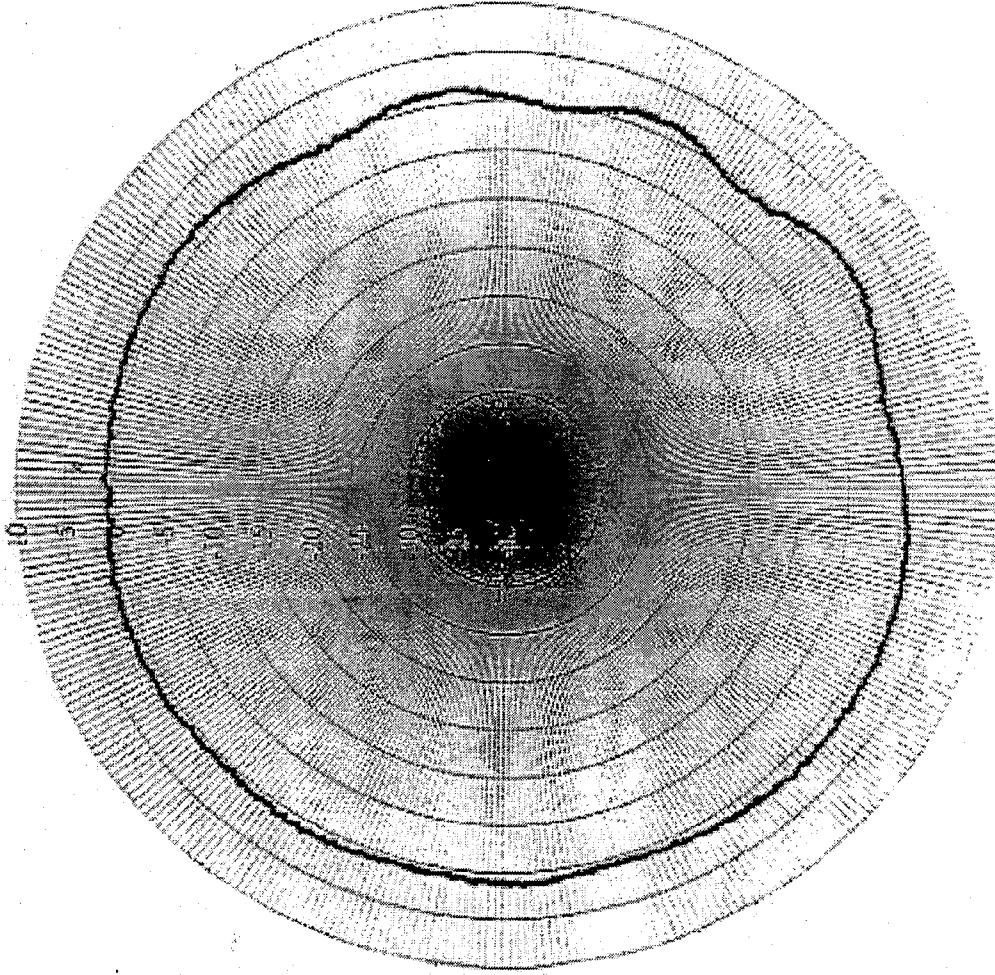
TEST CHAMBER: RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN: 1.92 dBi

MIN GAIN: -1.02 dBi

AVE GAIN: 0.81 dBi



H-Plane Test Report

IO ANTENNA PATTEM

ANTENNA TEST NO:W205-108-D200

TEST DATE:2003/10/12

TEST FREQUENCY:2500Mhz

TEST POLARIZATION:VERTICAL
(H-PLANE)

TEST ANTENNA:HORN ANTENNA

TEST CHAMBER:RF CHAMBER

TEST PERSONNEL.: Yang

MAX GAIN: 1.78 dBi

MIN GAIN: -0.39 dBi

AVE GAIN: 0.67 dBi

