

SPECIFICATION

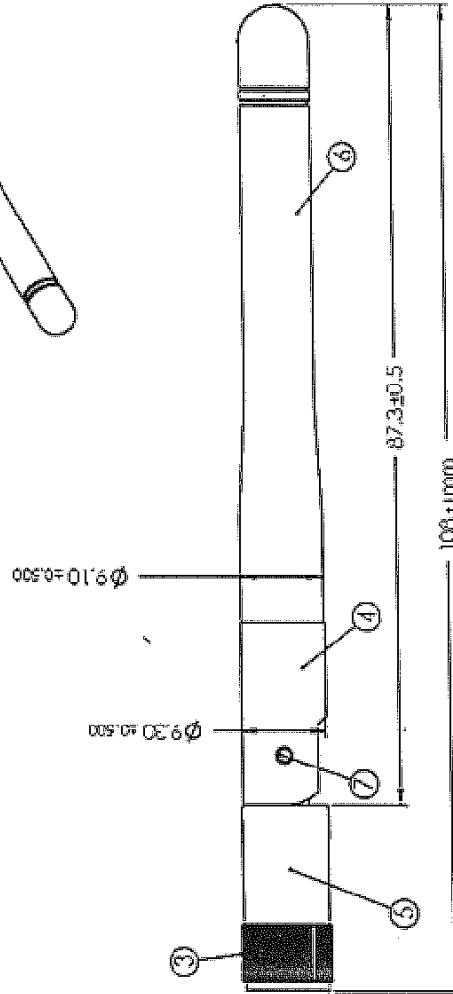
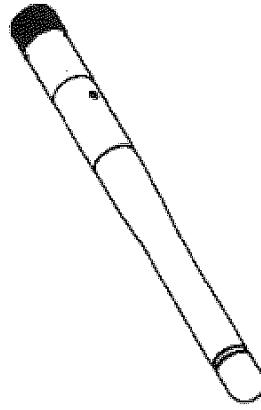
1. Electrical Properties

- 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.....-13 dB(Max.)
- 1-5 Max. Gain3.7 dBi
- 1-6 Polarization..... Vertical
- 1-7 Admitted Power.....5mW
- 1-8 Electrical Wave.....1/4 λ Dipole

2. Mechanical Properties

- 2-1 Connector.....Reverse Polarity SMA
Plug Connector
 - 2-2 Cable.....RG-178 Cable
 - 2-3 Antenna Cover.....TPEE
 - 2-4 Antenna Swivel:.....PC/ABS, ABS
 - 2-5 Color.....White
 - 2-6 Operating Temperature Range.....-20°C ~ +50°C
 - 2-6 Storage Temperature Range..... -20°C ~ +50°C
-

成品圖



ELECTRICAL PERFORMANCE :

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

7	銅件	鍍黑鎳
6	銅套	Black
5	底座	Black
4	天線座	PC/ABS
3	SMA扣座	鍍黑鎳
2	母端子	鍍金30μ"
1	主體	鍍金4μ"

ITEM DESCRIPTION MATERIALS FINISHED

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TITLE SMA Plug 2.4-2.5GHz Antenna

REMARKS:

D	SEE ECN	03-351	Yang	2003/08/12
B	SEE ECN	02-373	Yang	10/02/2002
A	NEW RELEASE	02-323	Yang	09/05/2002
T	Sample	02-236	Yang	08/07/2002
REV	DESCRIPTION	ECN	DRAWN	DATE

INPUT OUTPUT

W/06 : W205-108-D200

SCALE 1.5/1

FIG. NO. W205-108-D200

APPROVAL:

TOLERANCES UNLESS SPECIFIED ARE AS SHOWN

REVISIONS

MODEL: W205_108D200
DEVICE ID:

DATE: 07/28/2003
OPERATOR: YANG

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SWEEP DATA

START: 2.3000 GHz
STOP: 2.6000 GHz
STEP: 0.0060 GHz

GATE START: -
GATE STOP: -
GATE: -
WINDOW: -

ERROR CORR: REFL ONLY
AVERAGING: 1 PTS
IF BNDWDTH: REDUCED

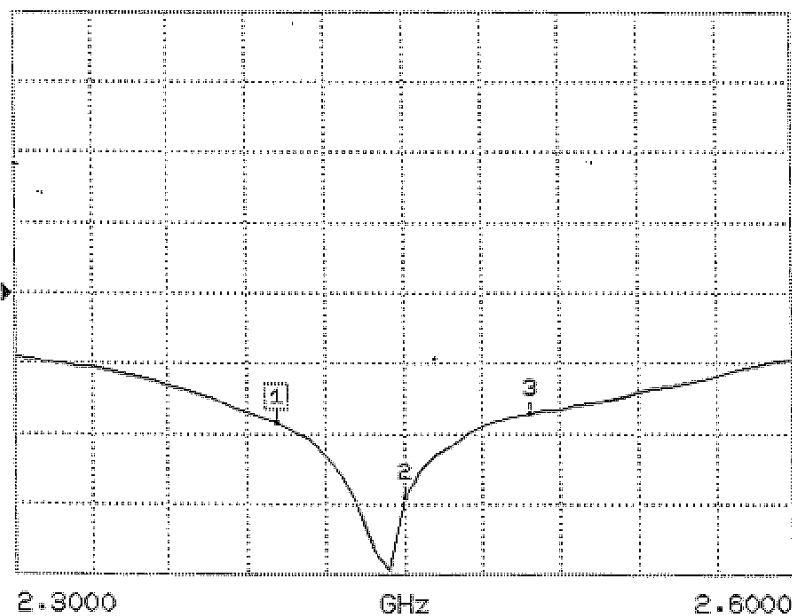
-----CH1-----
PARAMETER: S11
NORMALIZATION: OFF
REFERENCE PLANE: 0.0000 mm
SMOOTHING: 0.0 PERCENT
DELAY APERTURE: -

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
-29.133 dB

3 2.4980 GHz
-17.029 dB

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 BNDWDTH:	REDUCED
		WINDOW:	-		

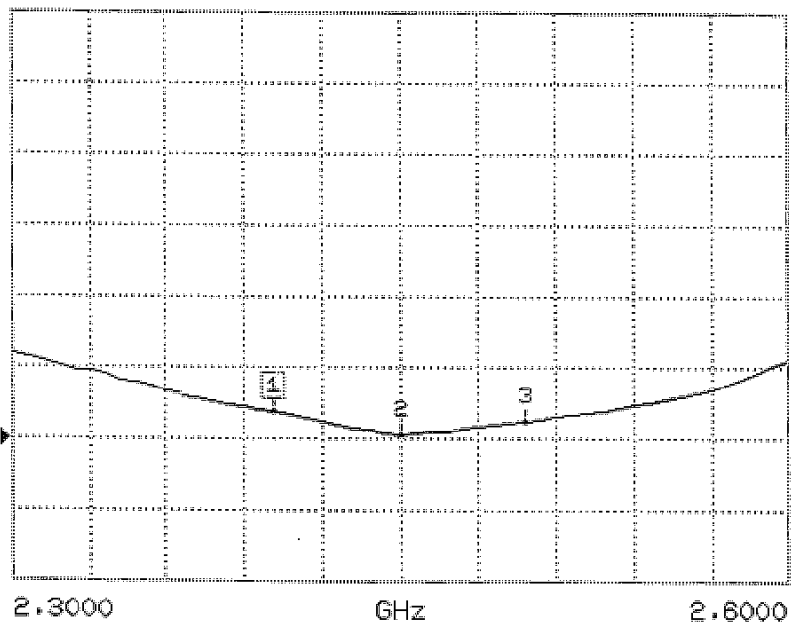
-----CH4-----
PARAMETER: S11
NORMALIZATION: OFF
REFERENCE PLANE: 0.0000 mm
SMOOTHING: 0.0 PERCENT
DELAY APERTURE: -

S11 FORWARD REFLECTION

SWR

REF=1.000U

1.000U/DIV



CH 4 - S11
REF. PLANE
0.0000 mm

MARKER 1
2.4020 GHz
1.376 U

MARKER TO MAX
MARKER TO MIN

2 2.4500 GHz
1 1.038 U

3 2.4980 GHz
1 1.250 U

MODEL: 6205-108-D200
 DEVICE ID:

DATE: 2003/09/08
 OPERATOR:

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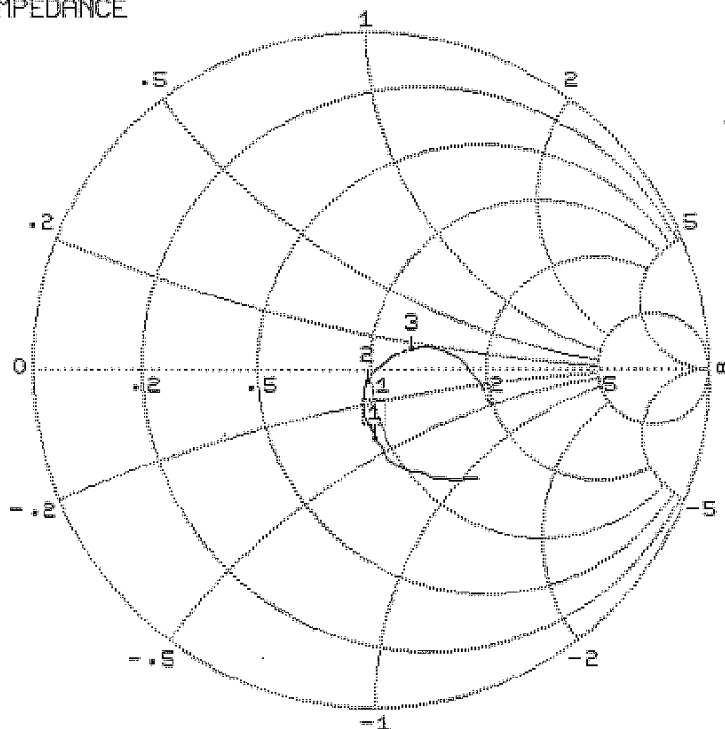
SWEEP DATA

START: 2.3000 GHz
 STOP: 2.6000 GHz
 STEP: 0.0060 GHz

GATE START: -
 GATE STOP: -
 GATE: -
 WINDOW: -

ERROR CORR: REFL ONLY
 AVERAGING: 1 PTS
 IF BNDWIDTH: REDUCED

-----CH3-----
 PARAMETER: S11
 NORMALIZATION: OFF
 REFERENCE PLANE: 0.0000 mm
 SMOOTHING: 0.0 PERCENT
 DELAY APERTURE: -

S11 FORWARD REFLECTION
IMPEDANCE

2.3000 - 2.6000 GHz

CH 3 - S11
 REF. PLANE
 0.0000 mm

MARKER 1
 2.3960 GHz
 46.932 Ω
 -19.958 $j\Omega$

MARKER TO MAX
 MARKER TO MIN

2 2.4500 GHz
 48.890 Ω
 -3.435 $j\Omega$
 3 2.5000 GHz
 62.948 Ω
 7.701 $j\Omega$

IO ANTENNA PATTEM

ANTENNA TEST NO.W205-108-D200

TEST DATE:2003/10/12

TEST FREQUENCY:2400Mhz

TEST POLARIZATION:VERTICAL
(H-PLANE)

TEST ANTENNA:HORN ANTENNA

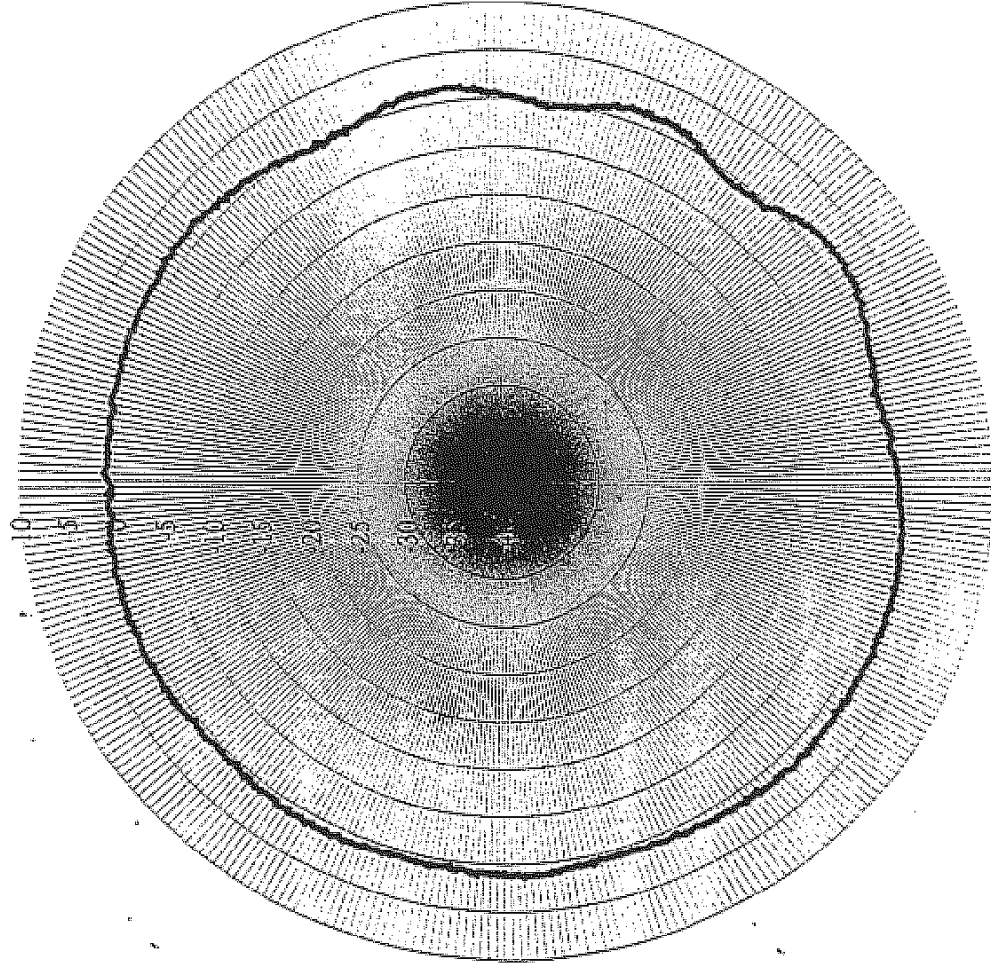
TEST CHAMBER:RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN: 1.92 dBi

MIN GAIN: -1.02 dBi

AVE GAIN: 0.81 dBi



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

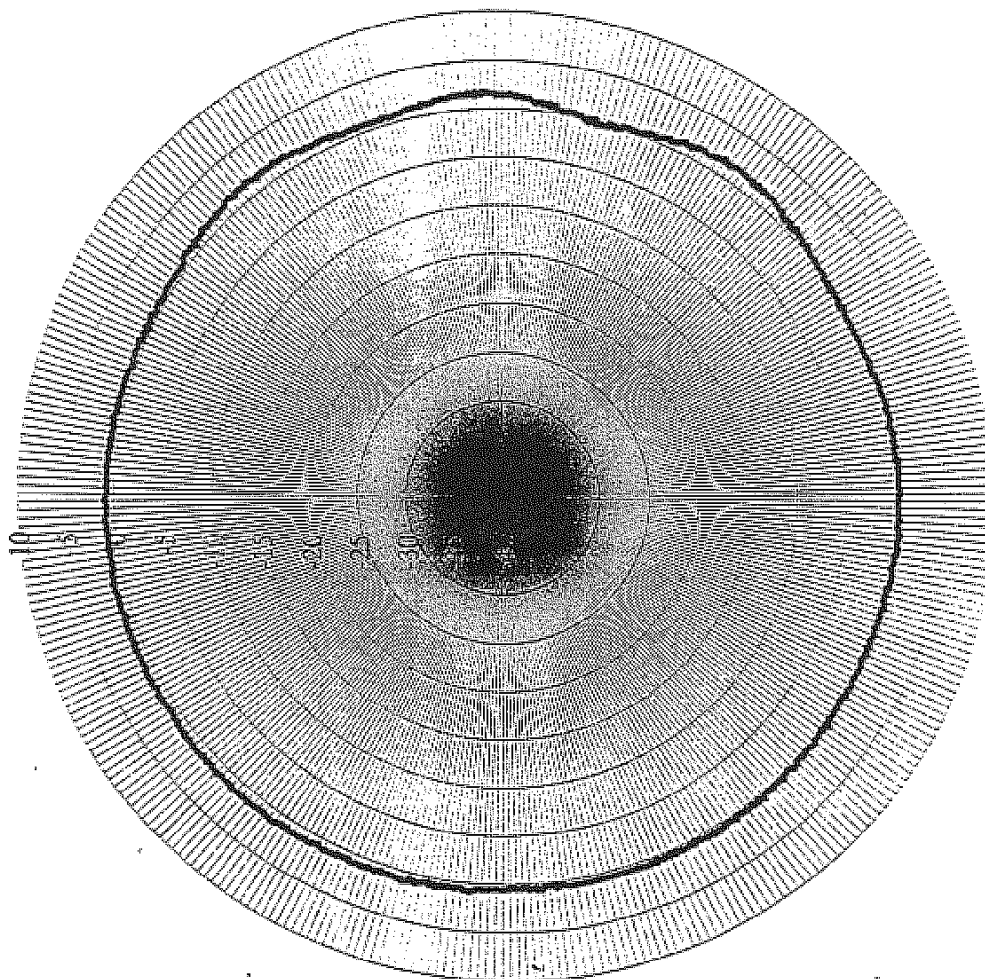
TEST CHAMBER:RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN: 1.78 dBi

MIN GAIN: -0.39 dBi

AVE GAIN: 0.67 dBi



IO ANTENNA PATTEM

ANTENNA TEST NO. W205-108-D200

TEST DATE:2003/10/13

TEST FREQUENCY:2400Mhz

TEST POLARIZATION:HORIZONTAL
(E-PLANE)

TEST ANTENNA:HORN ANTENNA

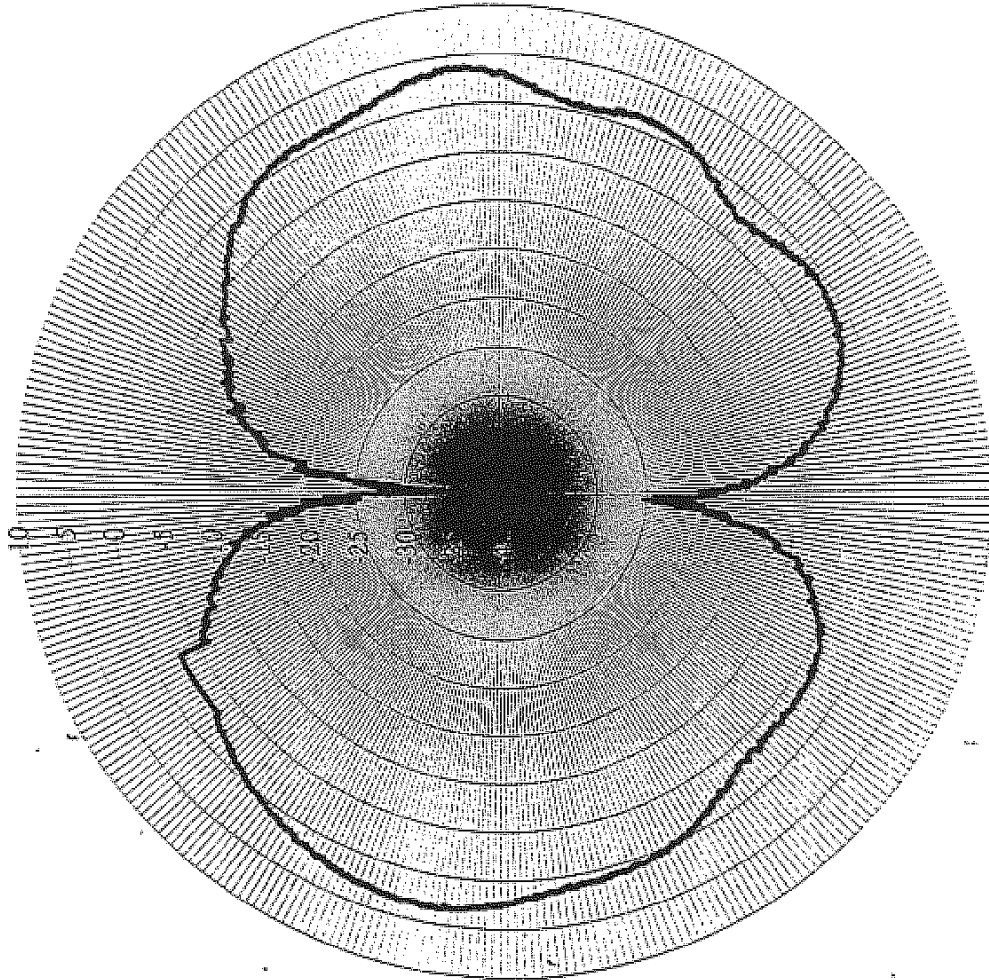
TEST CHAMBER:RF CHAMBER

TEST PERSONNEL: Yang

MAX GAIN: 3.75 dBi

MIN GAIN: -37.60 dBi

AVE GAIN: -3.62 dBi



IO ANTENNA PATTEM

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

