2.4 & 5.8G Dual Band ANTENNA

MODEL: MA-240A

1. GENERAL DESCRIPTION

Model No	P/N
MA240A	MA240A-3M-RPSMA-M

Below is a table summarizing the antenna design specification.

1.2 Electrica Properties

Parameter	Description
Frequency Band	2.4 ~2.5 & 5.0~5.9Ghz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /2 λ Dipole
Return Loss	-10db
V.S.W.R	2.0:1
Antenna Average Gain	3.0~5.0dBi
Note: Gain includes the cable loss	

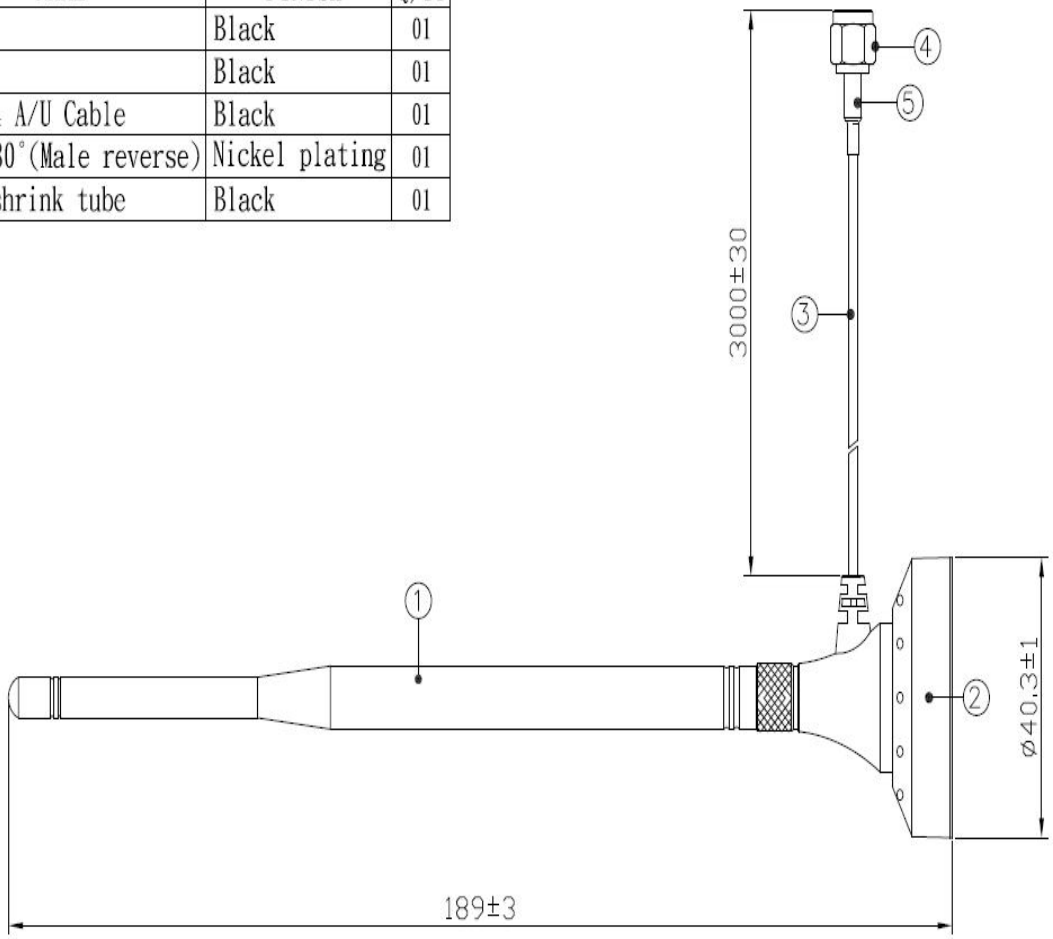
1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Antenna Material	TPR
Touch Type	Magnet Type

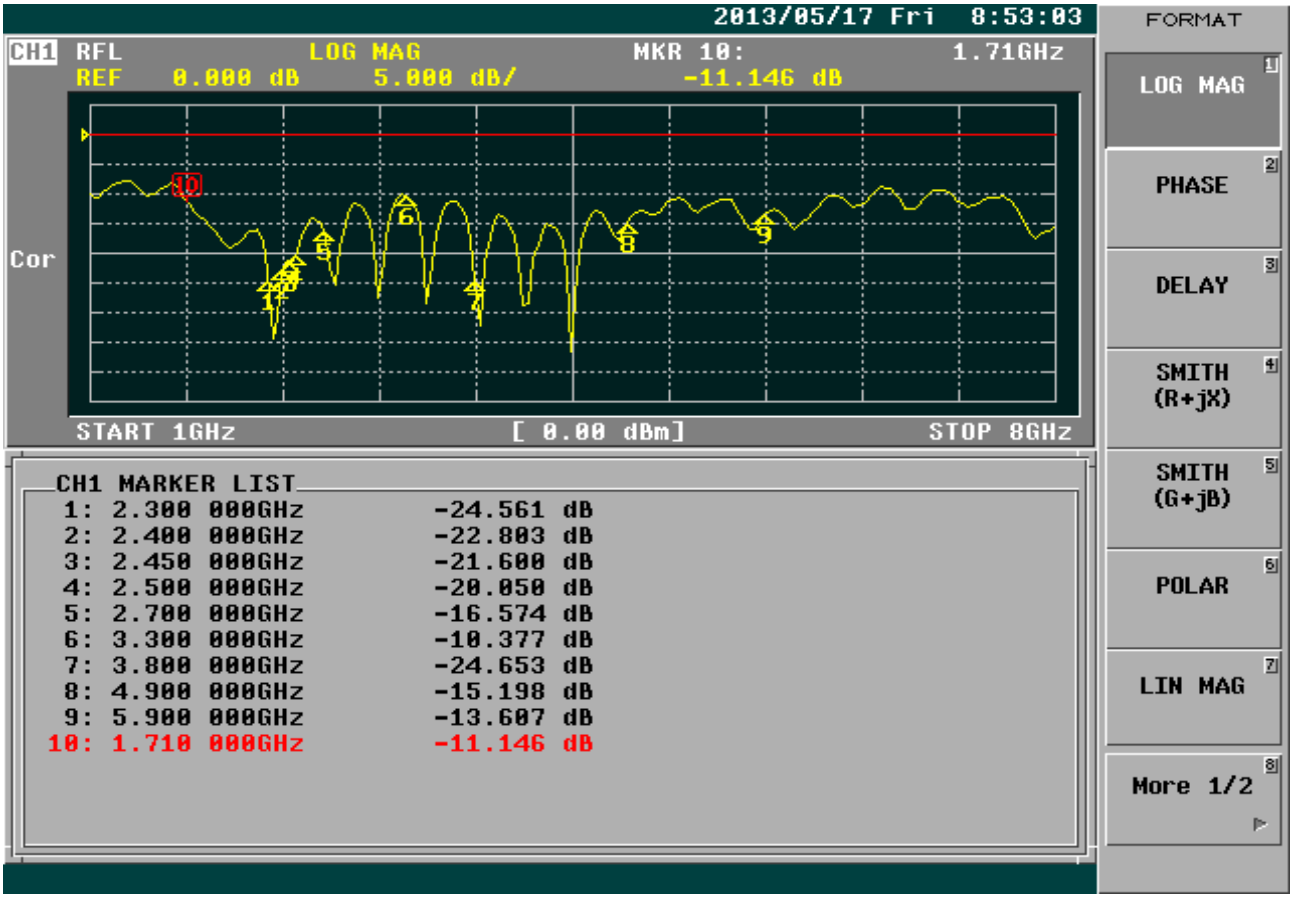
Connector Type	RPSMA–Type
Antenna Dimensions	OD40.3 x 189 mm
Antenna Cable Total Length	3000mm ± 10
Antenna Color	Black
Operating Temperature Range	-20˚C~+60˚C
Storage Temperature Range	-30˚C~+70˚C

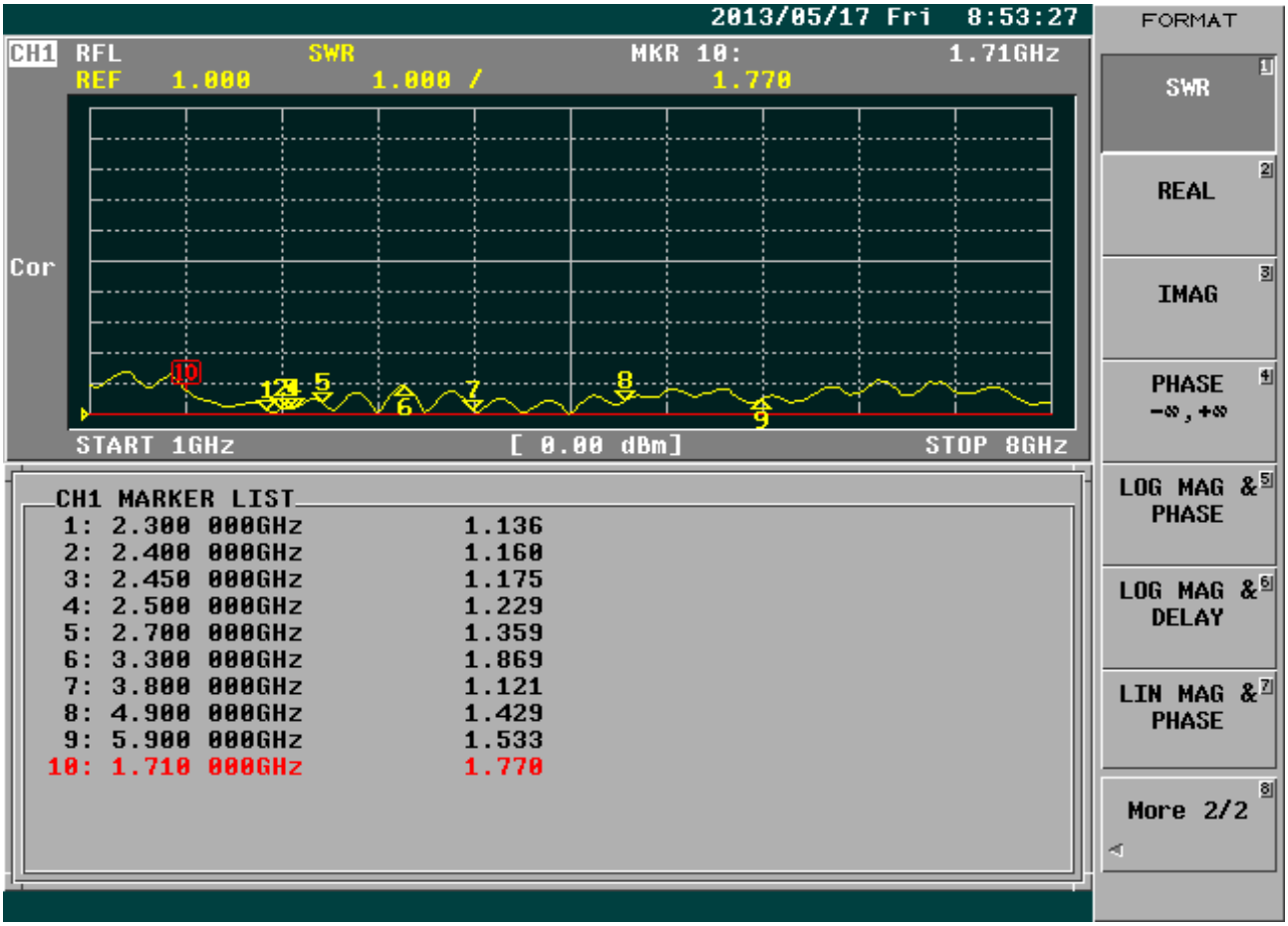
2. **Appearance**

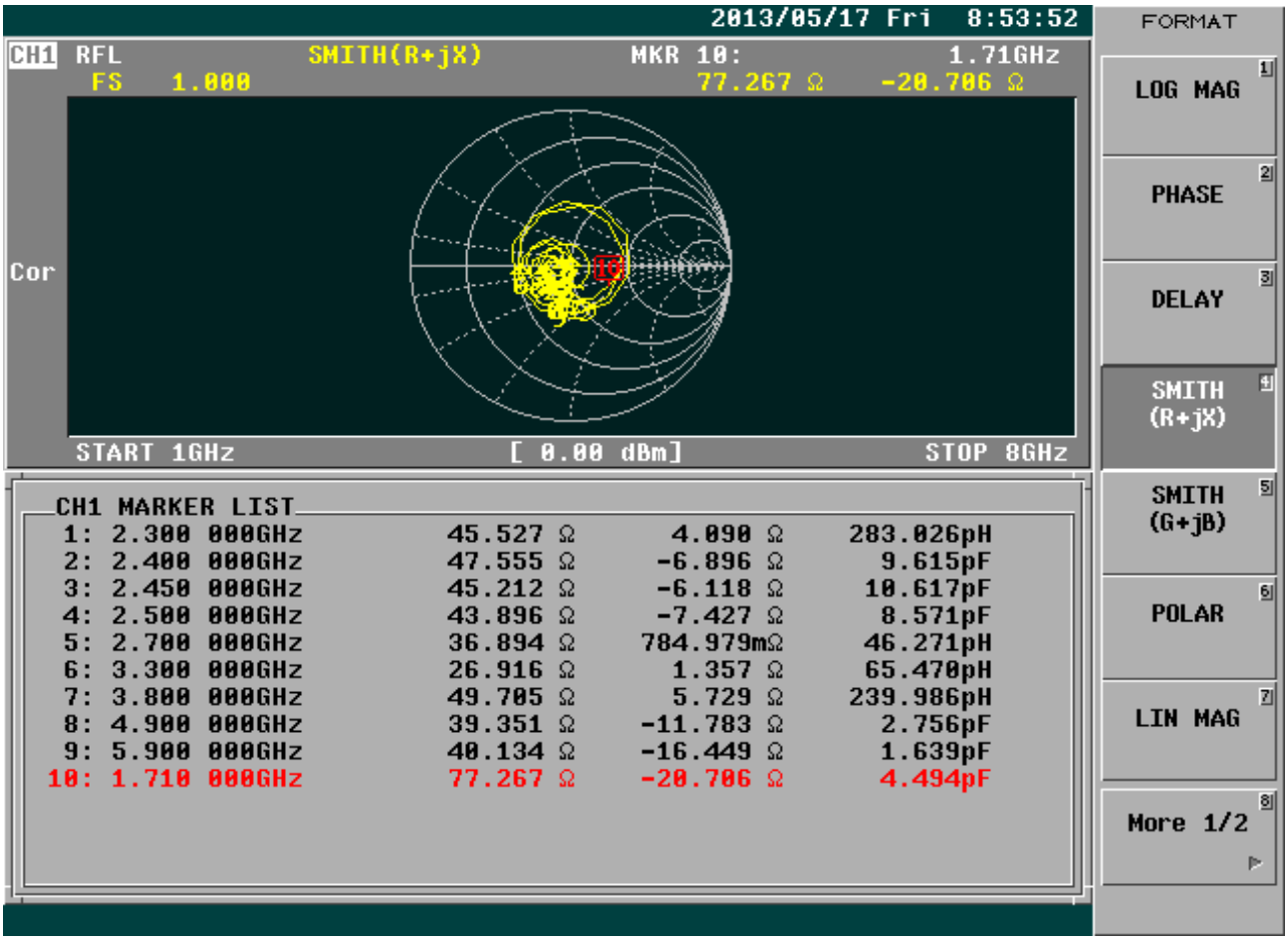
NO.	NAME	FINISH	Q,TY
01	Whip	Black	01
02	Base	Black	01
03	RG-174 A/U Cable	Black	01
04	SMA 180˚(Male reverse)	Nickel plating	01
05	Heat-shrink tube	Black	01



Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				2.4/5.2/5.7/5.8Hz	M/M		20130502	1
	TOLERANCE	X.XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	▽	APPEARANCE					


2013/05/17 Fri 8:53:03
CH1 RFL LOG MAG MKR 10: 1.71GHz
REF 0.000 dB 5.000 dB/ -11.146 dB
Cor
START 1GHz [0.00 dBm] STOP 8GHz
CH1 MARKER LIST
1: 2.300 000GHz -24.561 dB
2: 2.400 000GHz -22.803 dB
3: 2.450 000GHz -21.600 dB
4: 2.500 000GHz -20.050 dB
5: 2.700 000GHz -16.574 dB
6: 3.300 000GHz -10.377 dB
7: 3.800 000GHz -24.653 dB
8: 4.900 000GHz -15.198 dB
9: 5.900 000GHz -13.607 dB
10: 1.710 000GHz -11.146 dB
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2


2013/05/17 Fri 8:53:27
CH1 RFL SWR MKR 10: 1.71GHz
REF 1.000 1.000 / 1.770
Cor
START 1GHz [0.00 dBm] STOP 8GHz
CH1 MARKER LIST
1: 2.300 000GHz 1.136
2: 2.400 000GHz 1.160
3: 2.450 000GHz 1.175
4: 2.500 000GHz 1.229
5: 2.700 000GHz 1.359
6: 3.300 000GHz 1.869
7: 3.800 000GHz 1.121
8: 4.900 000GHz 1.429
9: 5.900 000GHz 1.533
10: 1.710 000GHz 1.770
FORMAT
SWR
REAL
IMAG
PHASE -∞,+∞
LOG MAG & PHASE
LOG MAG & DELAY
LIN MAG & PHASE
More 2/2


2013/05/17 Fri 8:53:52
FORMAT
CH1 RFL
SMITH(R+jX)
MKR 10: 1.71GHz
FS 1.000
77.267 Ω -20.706 Ω
Cor
10
START 1GHz
[0.00 dBm]
STOP 8GHz
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2
CH1 MARKER LIST
1: 2.300 000GHz 45.527 Ω 4.090 Ω 283.026pH
2: 2.400 000GHz 47.555 Ω -6.896 Ω 9.615pF
3: 2.450 000GHz 45.212 Ω -6.118 Ω 10.617pF
4: 2.500 000GHz 43.896 Ω -7.427 Ω 8.571pF
5: 2.700 000GHz 36.894 Ω 784.979mΩ 46.271pH
6: 3.300 000GHz 26.916 Ω 1.357 Ω 65.470pH
7: 3.800 000GHz 49.705 Ω 5.729 Ω 239.986pH
8: 4.900 000GHz 39.351 Ω -11.783 Ω 2.756pF
9: 5.900 000GHz 40.134 Ω -16.449 Ω 1.639pF
10: 1.710 000GHz 77.267 Ω -20.706 Ω 4.494pF