

CAR GSM Antenna

MODEL: MA-83B



1. GENERAL DESCRIPTION

Model No	P/N
	MA-83B

Below is a table summarizing the antenna design specification.

1.1 Electrical Properties

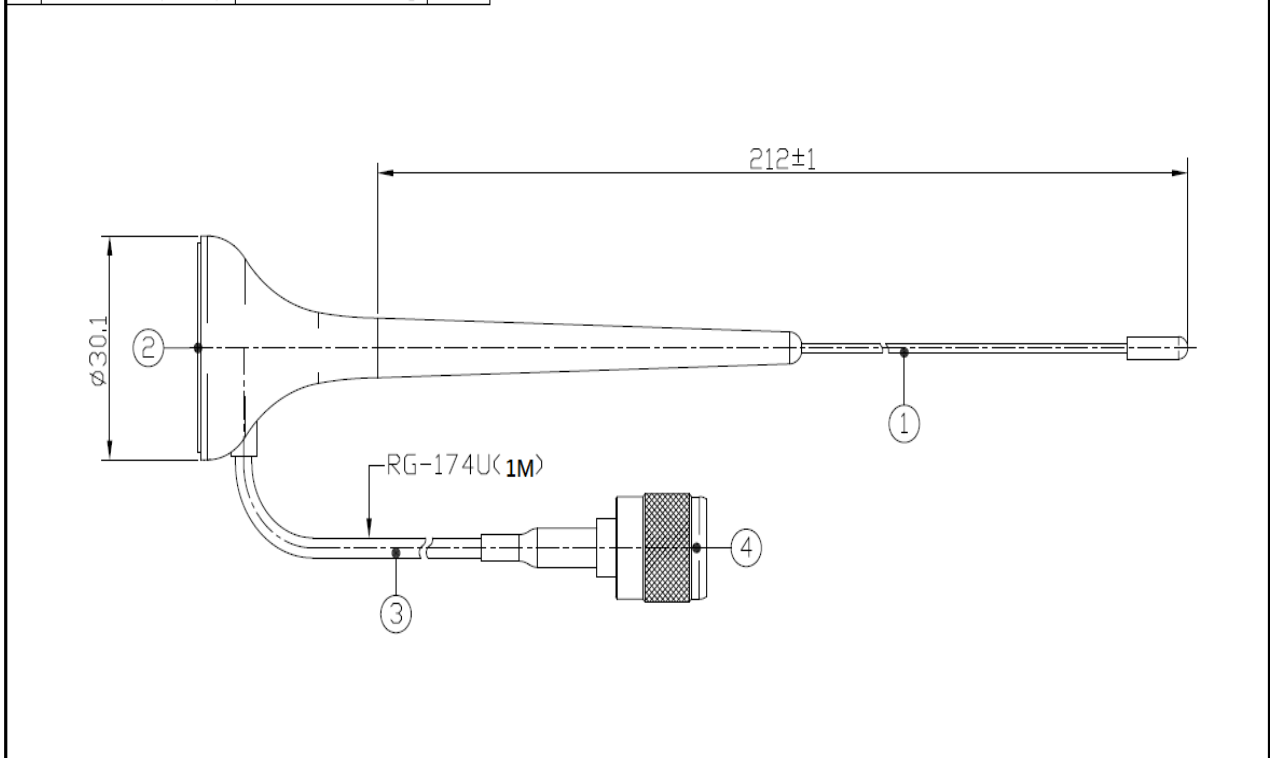
Parameter	Description
Frequency Band	824-960/1710-1990/1990~2170MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	Dipole
Return Loss	Please See Data-1
V.S.W.R	3.0 : 1
Antenna Average Gain	0~3 dBi
Note: Gain includes the cable loss	

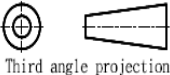
1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Magnet Type
Connector Type	SMA 180°(Male)
Antenna Dimensions	240±3
Antenna Cable Total Length	RG-174 A/U 1000 mm ±30
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

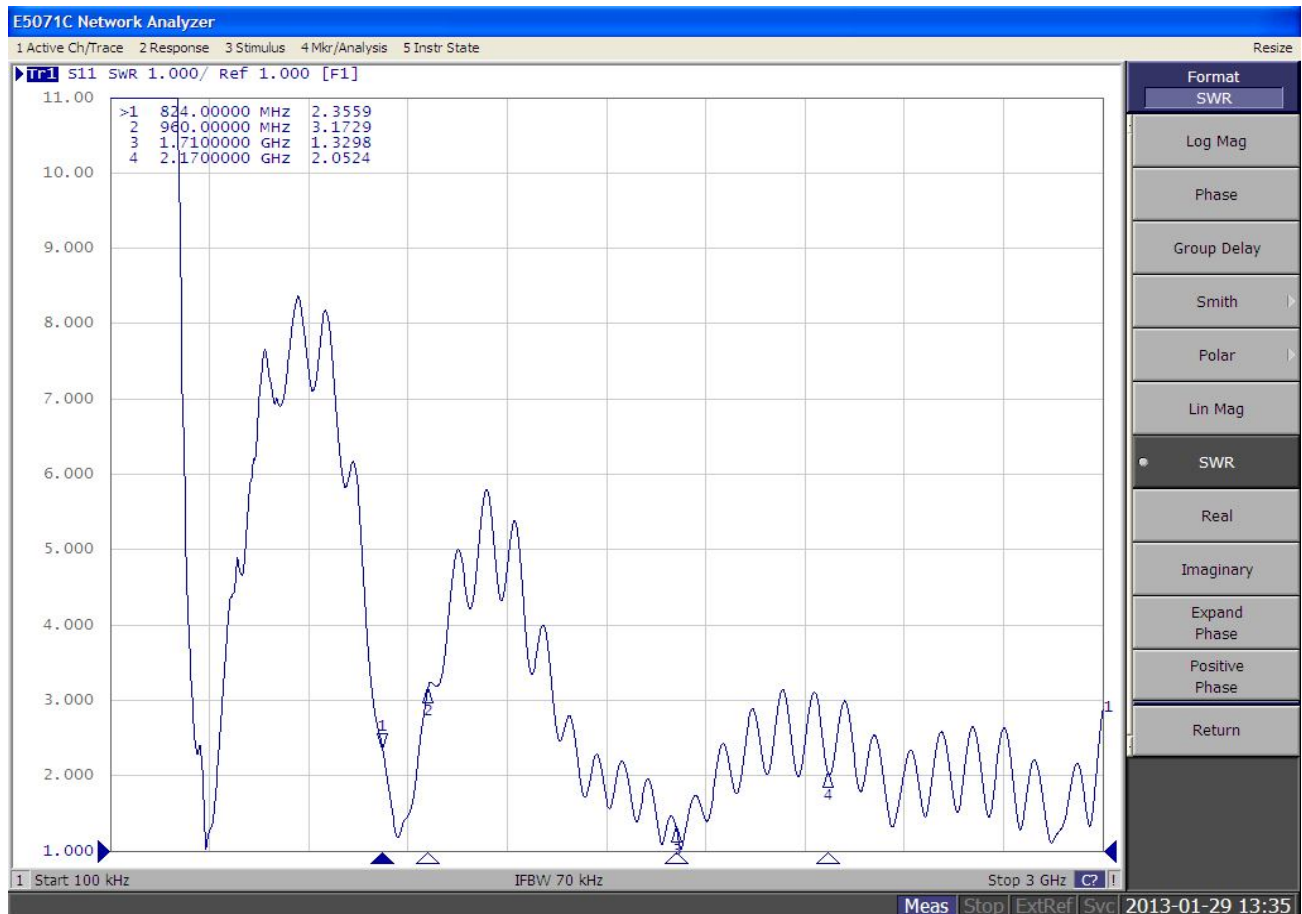
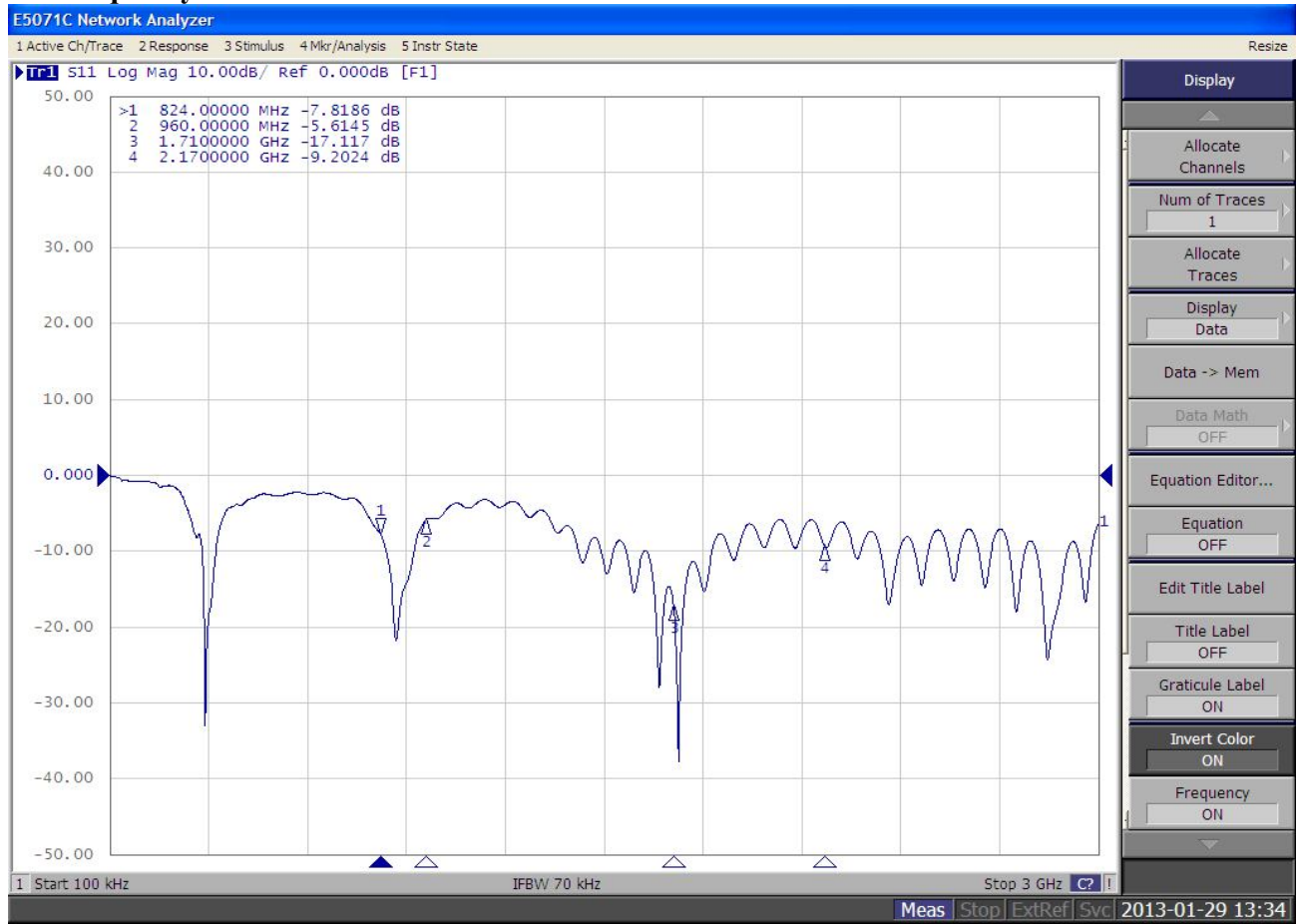
1. Appearance

NO.	NAME	FINISH	Q, TY
01	Whip	Black	01
02	Base	Black	01
03	RG-174U	Black	01
04	SMA 180°(Male)	Nickel plating	01



 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				800/900/1800/1900/2100MHz	M/M		20130121	1
	TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\frac{S}{\nabla}$	APPEARANCE					

2. Frequency



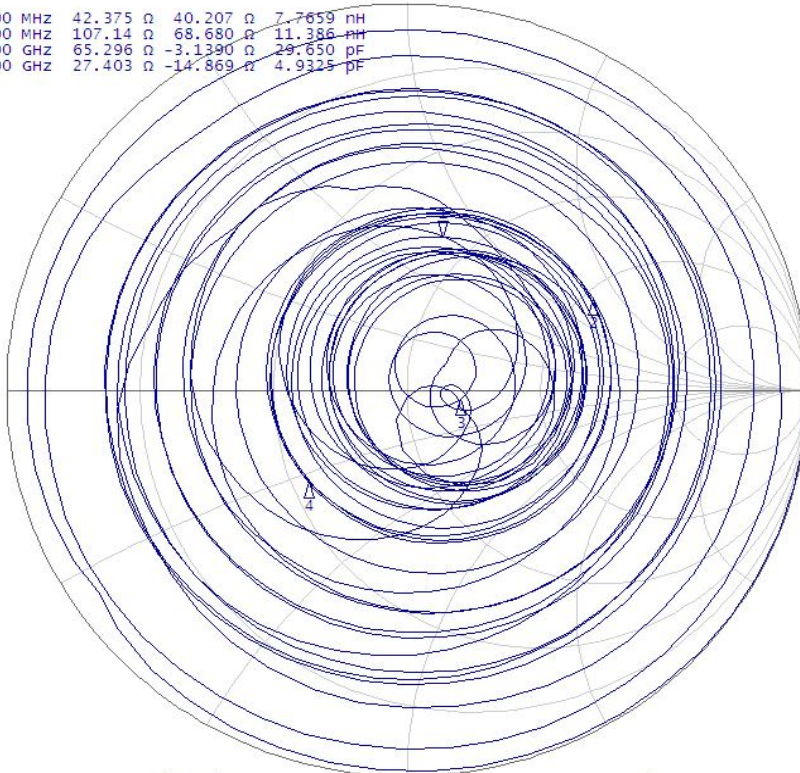
E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

▶ **tr1** s11 smith (R+jX) scale 1.000U [F1]

	Frequency	Real (Ω)	Imaginary (Ω)	Component
>1	824.00000 MHz	42.375	40.207	7.7659 nH
u2	960.00000 MHz	107.14	68.680	11.386 nH
3	1.7100000 GHz	65.296	-3.1390	29.650 pF
4	2.1700000 GHz	27.403	-14.869	4.9325 pF



1 Start 100 kHz

IFBW 70 kHz

Stop 3 GHz

Meas Stop ExtRef Svc 2013-01-29 13:35

Format

Smith (R+jX)

Log Mag

Phase

Group Delay

Smith

R + jX

Polar

Lin Mag

SWR

Real

Imaginary

Expand

Phase

Positive

Phase

Return