Outdoor LTE/GSM/3G Antenna

MODEL: GSM-700

1. GENERAL DESCRIPTION

Model No	P/N
GSM700	GSM-700-0.5M-N(F)

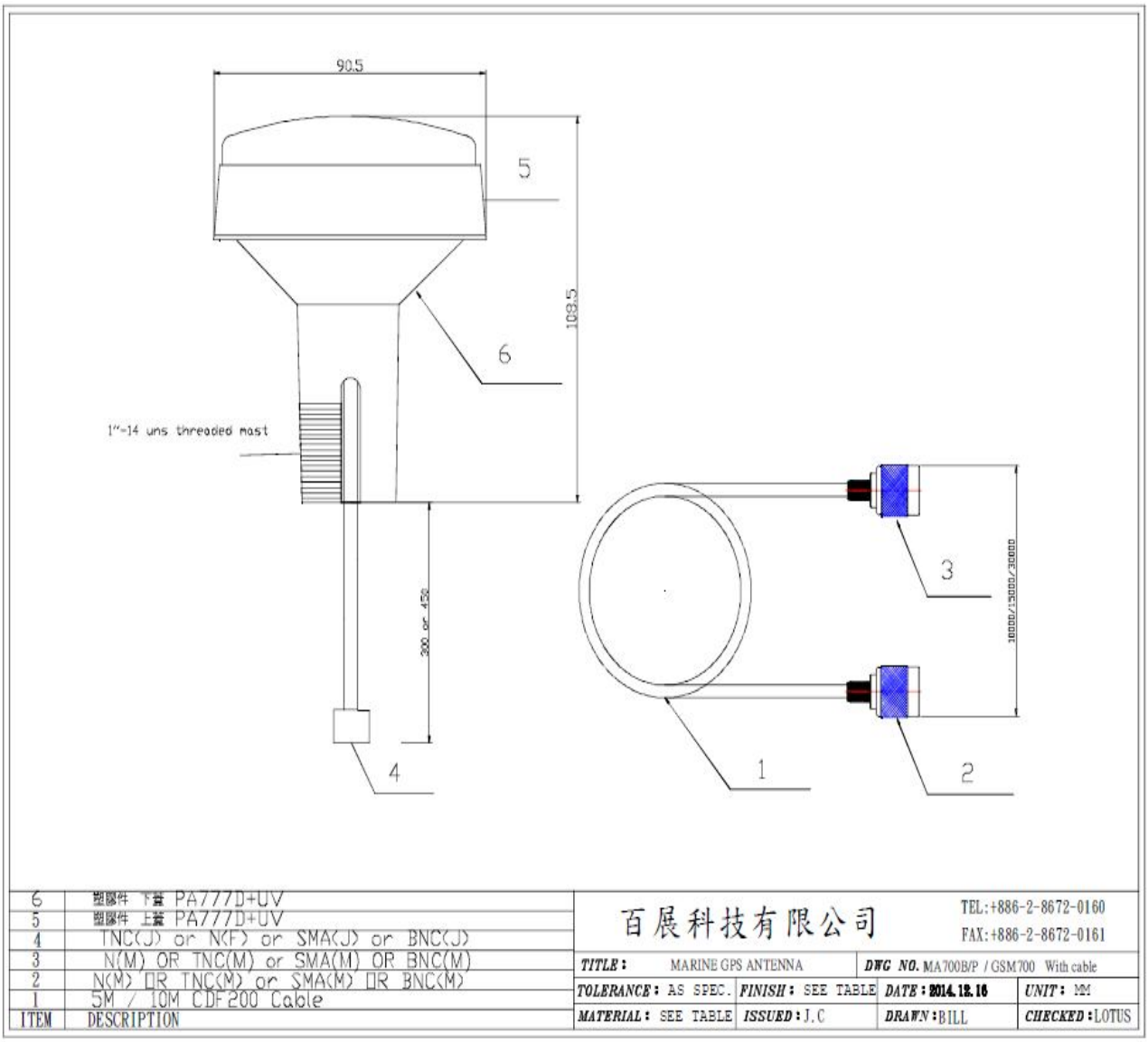
Below is a table summarizing the antenna design specification.

1.2 Electrica Properties

Parameter	Description
Frequency Band	690~960/1710~2170 Mhz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	-8db
V.S.W.R	2.5:1
Antenna Average Gain	0~3.5dBi (without cable)
Note: Gain includes the cable loss	

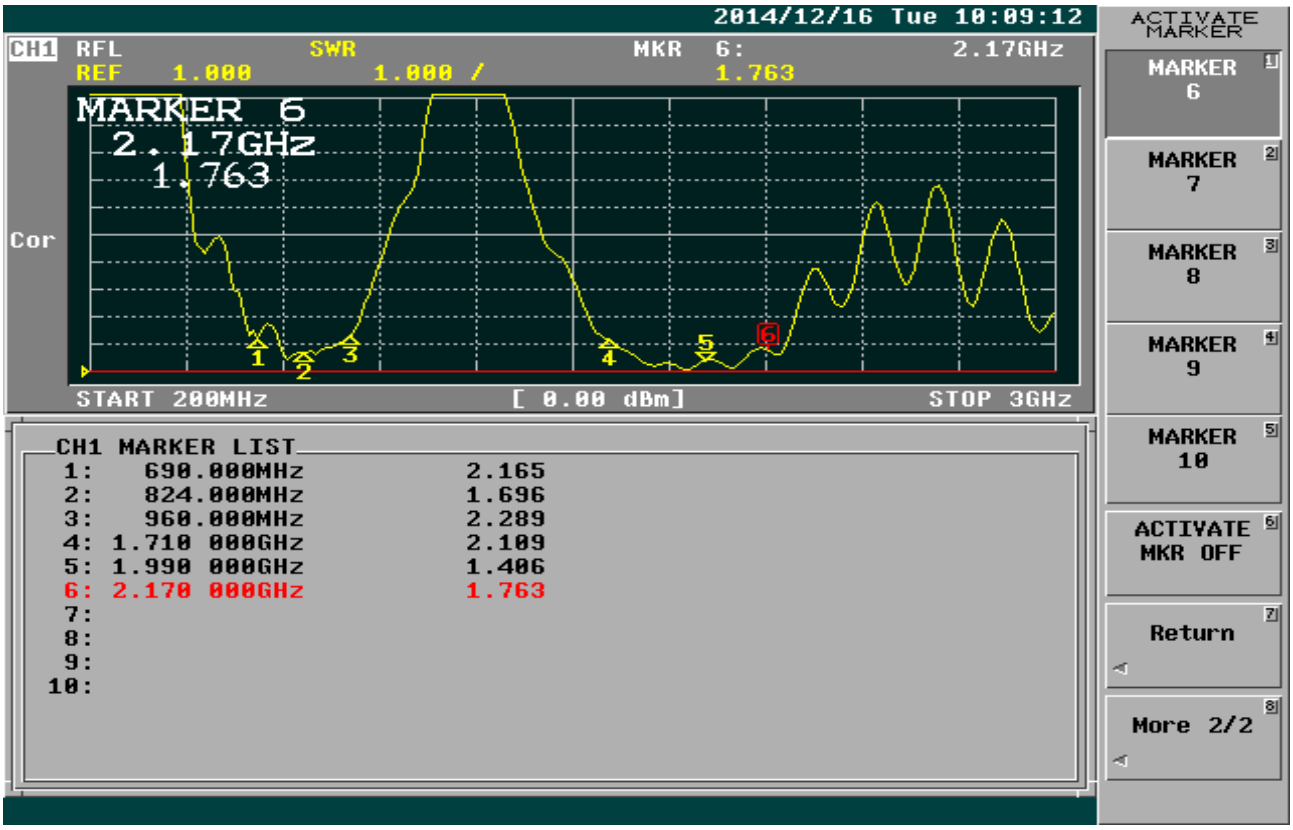
1.2 Mechanical Properties

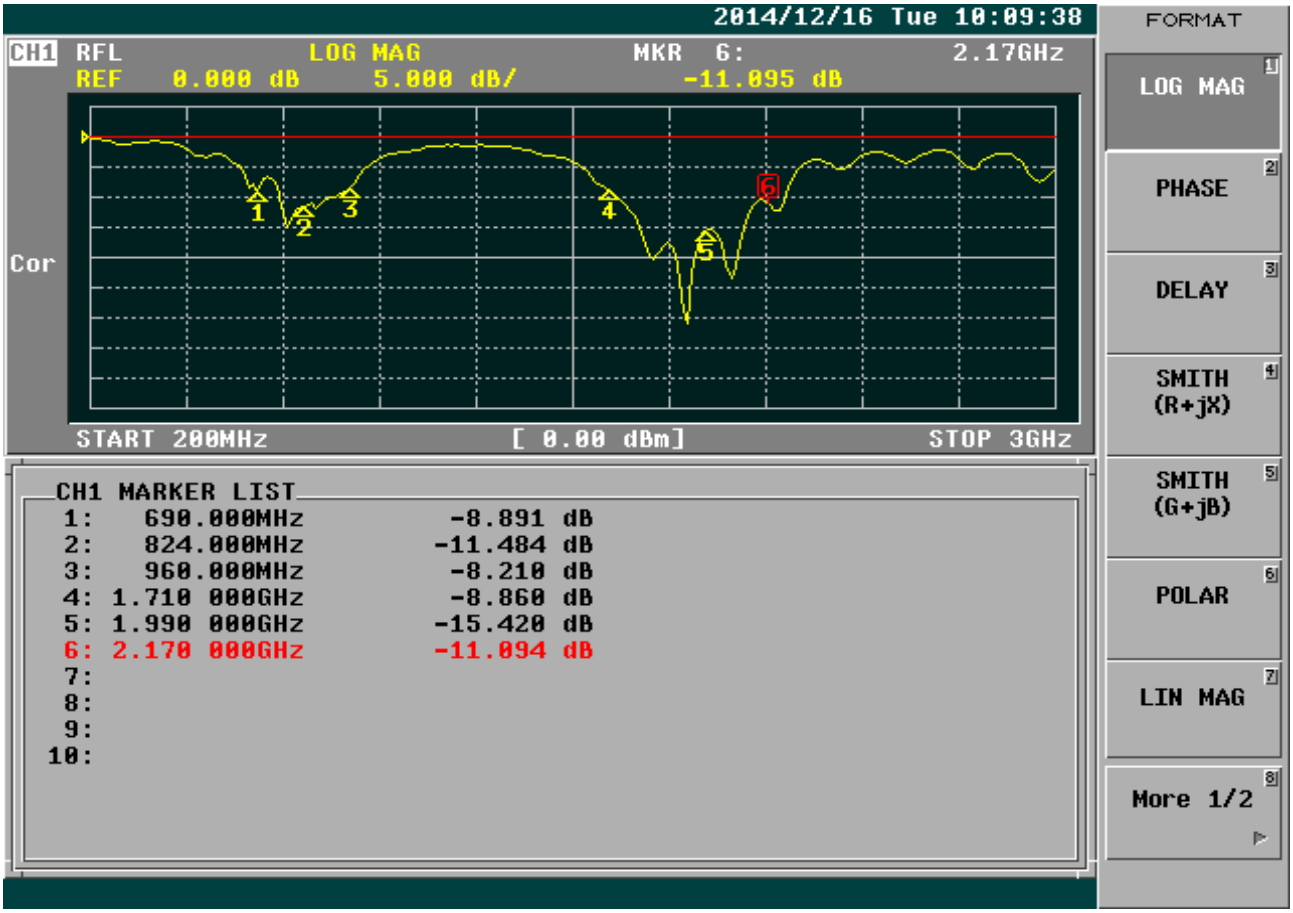
Parameter	Description
Water Resistance	100% waterproof. IPX7
Connector Type	N(F) or SMA(F) or----
Antenna Dimensions	90mm(Dia.) x 108.5mm(H)
Antenna Cable Total Length	N(M)-CFD200-5M-SMA(M) or ---
Antenna Color	White
Operating Temperature Range	-30˚C~+80˚C
Storage Temperature Range	-40˚C~+90˚C

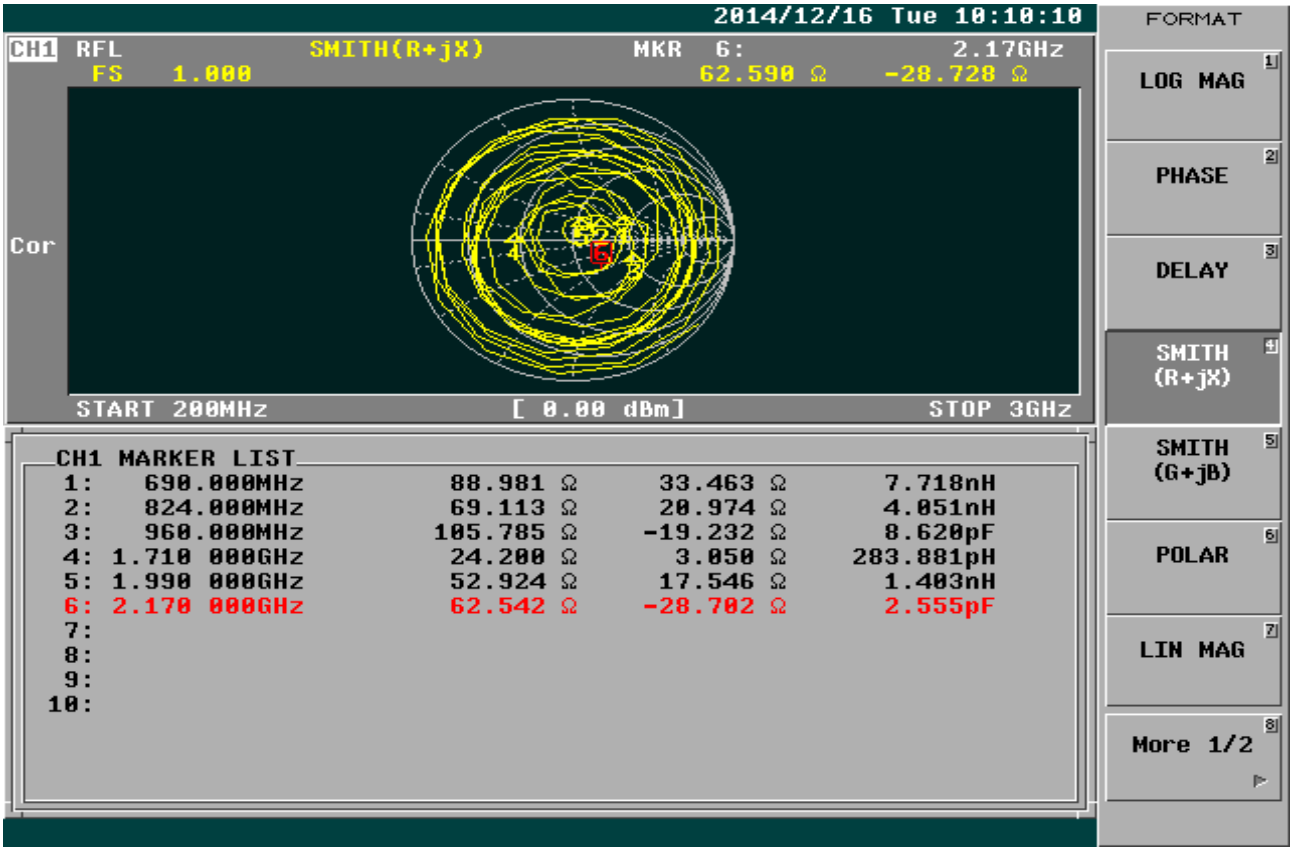


. FREQUENCY


STOP FREQUENCY
3GHz


2014/12/16 Tue 10:09:12
CH1 RFL SWR MKR 6: 2.17GHz
REF 1.000 1.000 / 1.763
MARKER 6
2.17GHz
1.763
Cor
START 200MHz
[0.00 dBm]
STOP 3GHz
CH1 MARKER LIST
1: 690.000MHz 2.165
2: 824.000MHz 1.696
3: 960.000MHz 2.289
4: 1.710 000GHz 2.109
5: 1.990 000GHz 1.406
6: 2.170 000GHz 1.763
7:
8:
9:
10:
ACTIVATE MARKER
MARKER 6
MARKER 7
MARKER 8
MARKER 9
MARKER 10
ACTIVATE MKR OFF
Return
More 2/2


2014/12/16 Tue 10:09:38
CH1 RFL
LOG MAG
MKR 6:
2.17GHz
REF 0.000 dB
5.000 dB/
-11.095 dB
Cor
START 200MHz
[0.00 dBm]
STOP 3GHz
CH1 MARKER LIST
1: 690.000MHz -8.891 dB
2: 824.000MHz -11.484 dB
3: 960.000MHz -8.210 dB
4: 1.710 000GHz -8.860 dB
5: 1.990 000GHz -15.420 dB
6: 2.170 000GHz -11.094 dB
7:
8:
9:
10:
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2


2014/12/16 Tue 10:10:10
CH1 RFL
SMITH(R+jX)
MKR 6:
2.17GHz
FS 1.000
62.590 Ω
-28.728 Ω
Cor
START 200MHz
[0.00 dBm]
STOP 3GHz
CH1 MARKER LIST
1: 690.000MHz 88.981 Ω 33.463 Ω 7.718nH
2: 824.000MHz 69.113 Ω 20.974 Ω 4.051nH
3: 960.000MHz 105.785 Ω -19.232 Ω 8.620pF
4: 1.710 000GHz 24.200 Ω 3.050 Ω 283.881pH
5: 1.990 000GHz 52.924 Ω 17.546 Ω 1.403nH
6: 2.170 000GHz 62.542 Ω -28.702 Ω 2.555pF
7:
8:
9:
10:
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2

Frequency (MHz)	690	824	869	960	1710	1920	2170	2500
Average Gain (dBi)	-1.13	-1.48	-1.99	-3.57	-2.73	-2.30	-3.15	-2.56
Peak Gain (dBi)	2.50	1.70	1.41	0.50	2.43	3.58	2.27	2.73
Efficiency (%)	77.06	71.14	63.21	43.96	53.38	58.94	48.37	55.51