

GSM/LTE/GPS/GLONASS/Iridium Passive Antenna

MODEL: TH-81F



1.. GENERAL DESCRIPTION

Model No	P/N
TH-81F	TH81F-SMA(M)

Below is a table summarizing the antenna design specification.

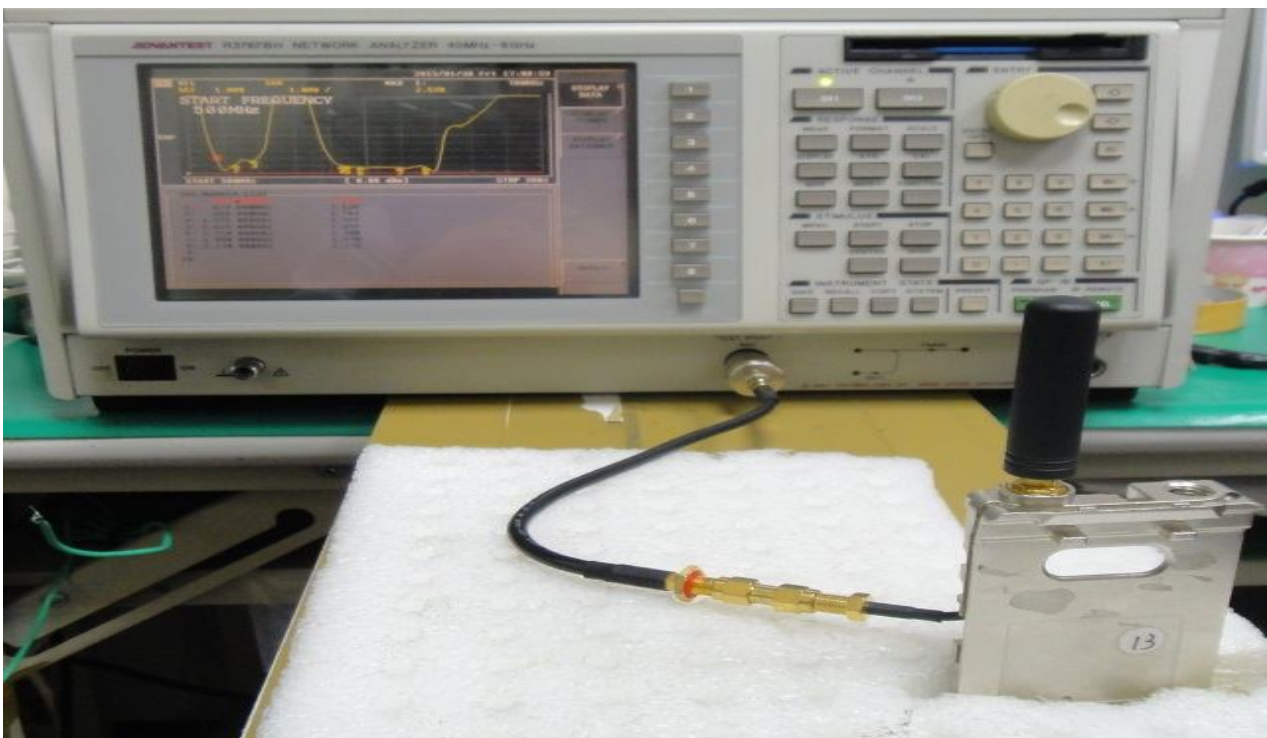
1.1 Electrical Properties

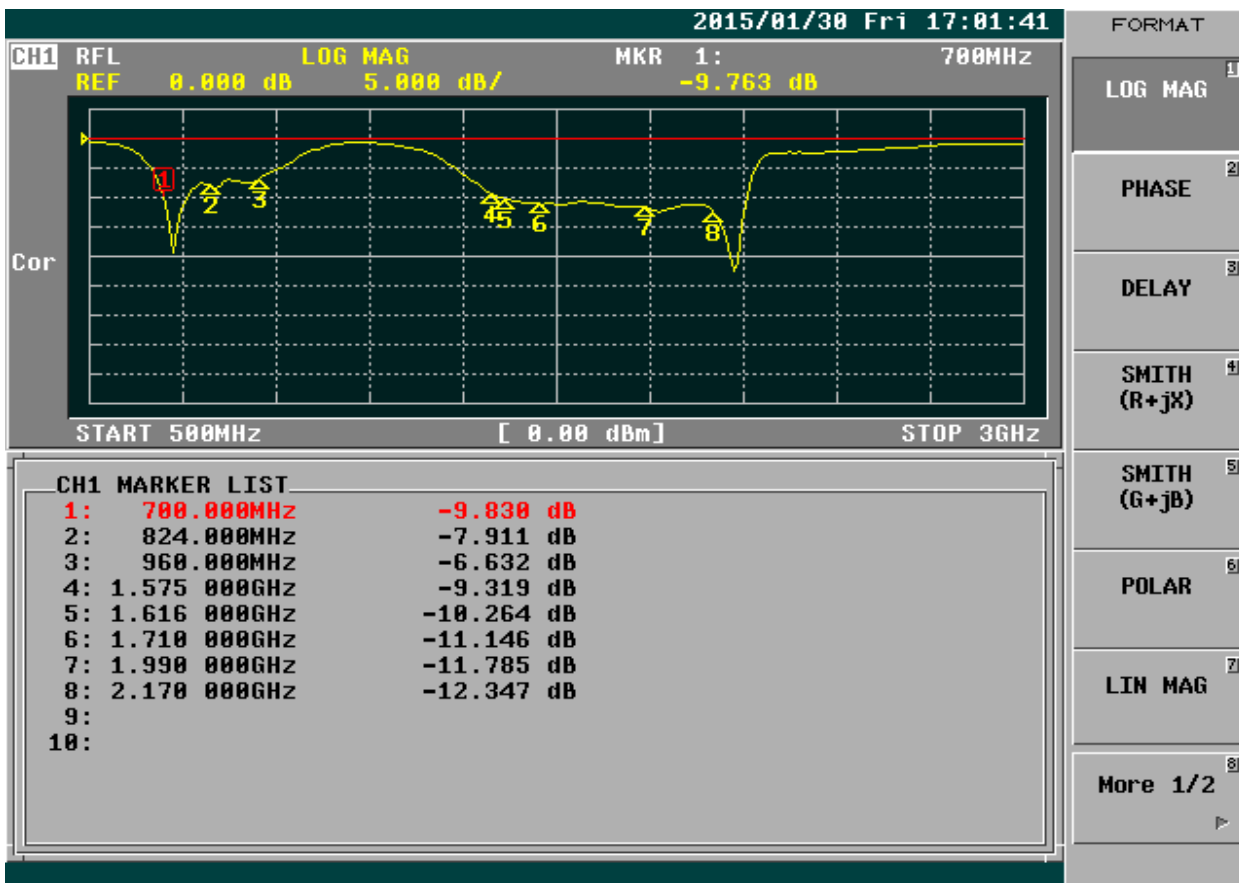
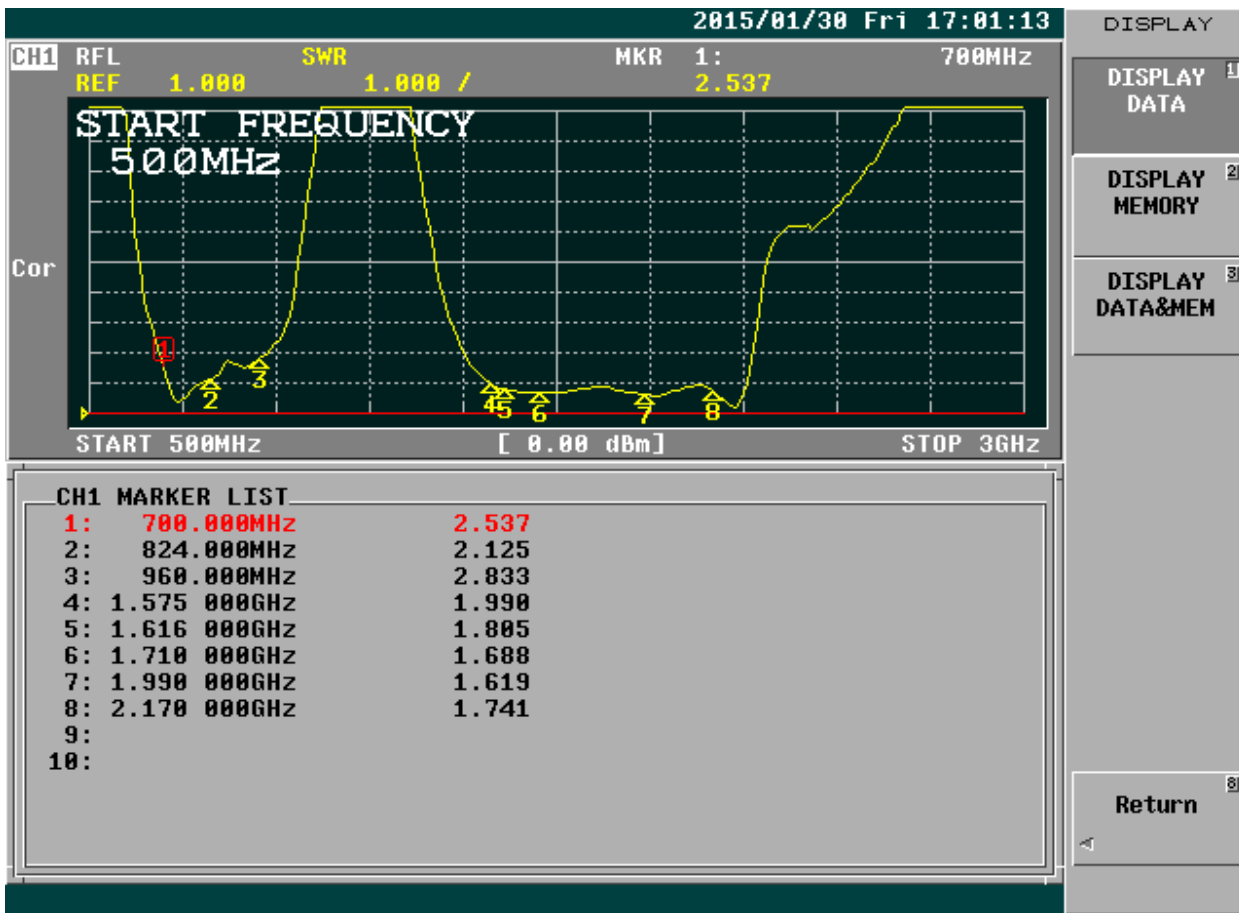
Parameter	Description
Frequency Band	700-960/1575-1616/1710-2170Mhz ON Customer Machine GND
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /4 λ
Admitted Power radiation	1W
V.S.W.R	3.0:1 Max
Antenna Average Gain	0 dB
Note: Gain includes the cable loss	

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna

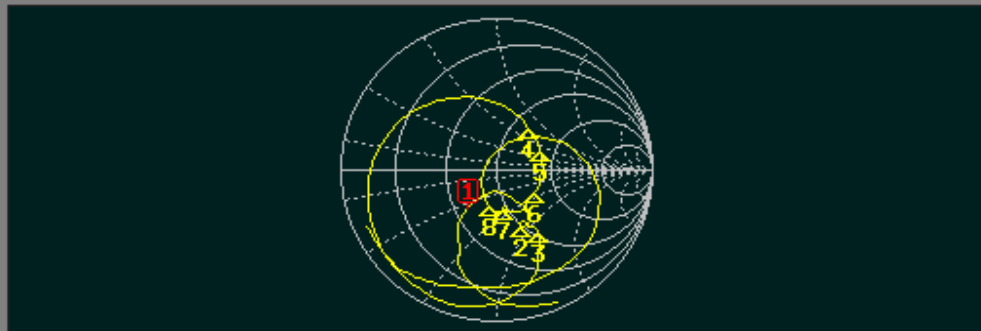
Material	TPU
Touch Type	Screw Type
Connector Type	SMA (Male)
Antenna Dimensions	OD12.4 x 50.4mm±0.5
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-35°C~+80°C





CH1 RFL SMITH(R+jX) MKR 1: 700MHz
 FS 1.000 30.711 Ω -17.848 Ω

Cor



START 500MHz [0.00 dBm] STOP 3GHz

CH1 MARKER LIST

1:	700.000MHz	30.838 Ω	-16.633 Ω	13.669pF
2:	824.000MHz	48.431 Ω	-43.512 Ω	4.438pF
3:	960.000MHz	53.810 Ω	-58.722 Ω	2.823pF
4:	1.575 000GHz	61.822 Ω	38.379 Ω	3.878nH
5:	1.616 000GHz	85.007 Ω	21.903 Ω	2.157nH
6:	1.710 000GHz	75.002 Ω	-23.981 Ω	3.880pF
7:	1.990 000GHz	46.791 Ω	-26.799 Ω	2.984pF
8:	2.170 000GHz	40.386 Ω	-20.246 Ω	3.622pF
9:				
10:				

FORMAT

LOG MAG ¹

PHASE ²

DELAY ³

SMITH (R+jX) ⁴

SMITH (G+jB) ⁵

POLAR ⁶

LIN MAG ⁷

More 1/2 ⁸