

LTE/GSM/GPS/GLONASS/WIFI Antenna

MODEL: TH-80P



1.. GENERAL DESCRIPTION

Model No	P/N
TH-80P	TH80P-SMA90M

Below is a table summarizing the antenna design specification.

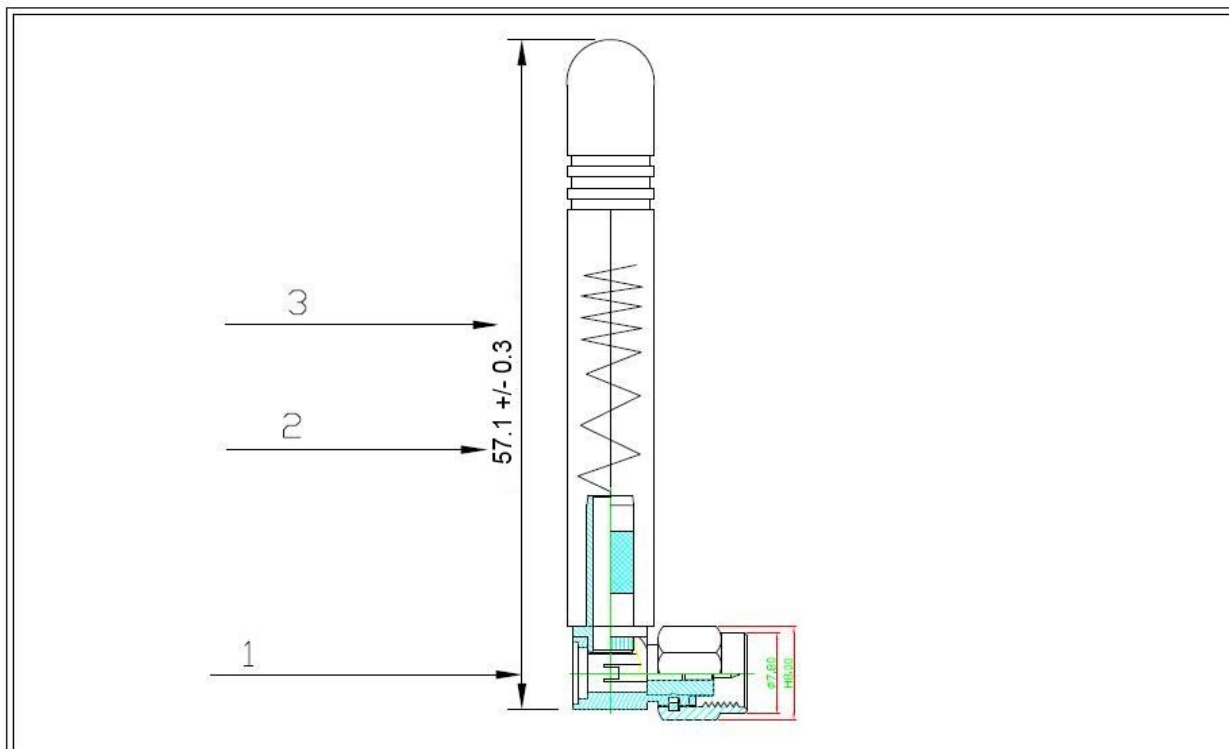
1.1 Electrical Properties

Parameter	Description
Frequency Band	700/800/900/1575/1620/1800/1900/2170/2400/2500MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	1 /4 λ
Admitted Power radiation	1W
V.S.W.R	3.0:1
Antenna Average Gain	0 dBi
Note: Gain includes the cable loss	

1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Material	TPU
Touch Type	Screw Type

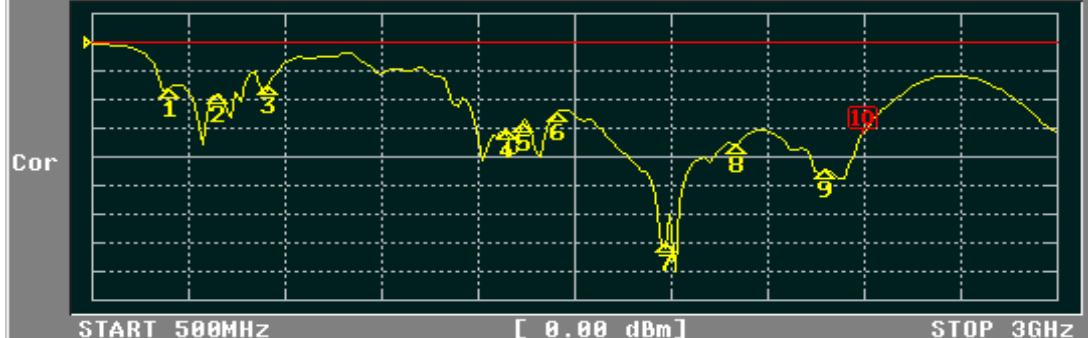
Connector Type	SMA 90° (Male)
Antenna Dimensions	57.1mm±0.3
Antenna Color	Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-35°C~+80°C



				 百展科技 www.bjtek.com.tw		百展科技有限公司 BJTEK NAVIGATION INC		TEL: 886-2-86720160 FAX: 886-2-86720161	
3	ROTAARY SHAFT	BRASS	CR-BLACK	TITLE: GSM DIPOLE ANTENNA		DWG NO.: TH-80-SMA90			
2	ANT. COVER	TPU	BLACK	TOLERANCE: AS SPEC.		FINISH: SEE TABLE		DATE: 2008.05.29	
1	SMA CONN.	BRASS	GOLD-PLATED	MATERIAL: SEE TABLE		ISSUED: 787KEN		DRAWN: BILL	
ITEM	DESCRIPTION	MAT'L	FINISH	ITEM No.					CHECKED: LOTUS



CH1 RFL LOG MAG MKR 10: 2.5GHz
 REF 0.000 dB 5.000 dB/ -16.827 dB



CH1 MARKER LIST

1:	700.000MHz	-8.000 dB
2:	824.000MHz	-9.205 dB
3:	960.000MHz	-7.252 dB
4:	1.575 000GHz	-15.242 dB
5:	1.620 000GHz	-13.900 dB
6:	1.710 000GHz	-12.184 dB
7:	1.990 000GHz	-35.192 dB
8:	2.170 000GHz	-17.808 dB
9:	2.400 000GHz	-22.125 dB
10:	2.500 000GHz	-16.827 dB

FORMAT

LOG MAG [1]

PHASE [2]

DELAY [3]

SMITH (R+jX) [4]

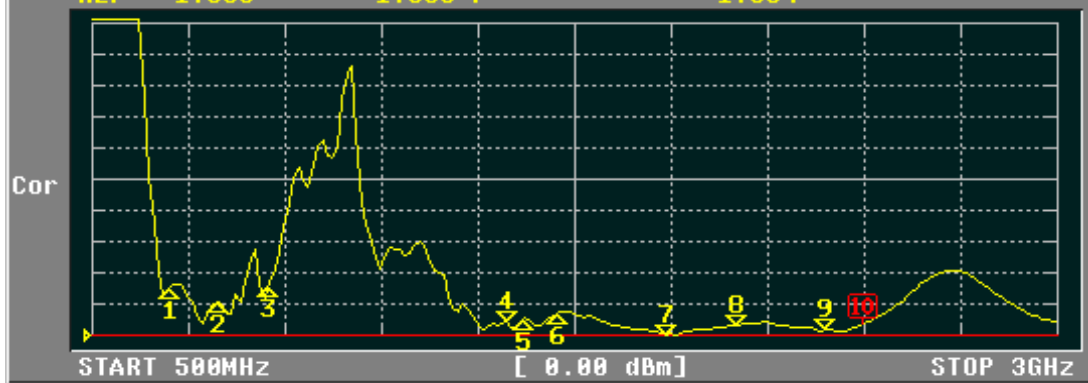
SMITH (G+jB) [5]

POLAR [6]

LIN MAG [7]

More 1/2 [8]

CH1 RFL SWR MKR 10: 2.5GHz
 REF 1.000 1.000 / 1.364



CH1 MARKER LIST

1:	700.000MHz	2.480
2:	824.000MHz	2.059
3:	960.000MHz	2.603
4:	1.575 000GHz	1.419
5:	1.620 000GHz	1.494
6:	1.710 000GHz	1.717
7:	1.990 000GHz	1.045
8:	2.170 000GHz	1.264
9:	2.400 000GHz	1.131
10:	2.500 000GHz	1.351

FORMAT

SWR [1]

REAL [2]

IMAG [3]

PHASE -∞, +∞ [4]

LOG MAG & PHASE [5]

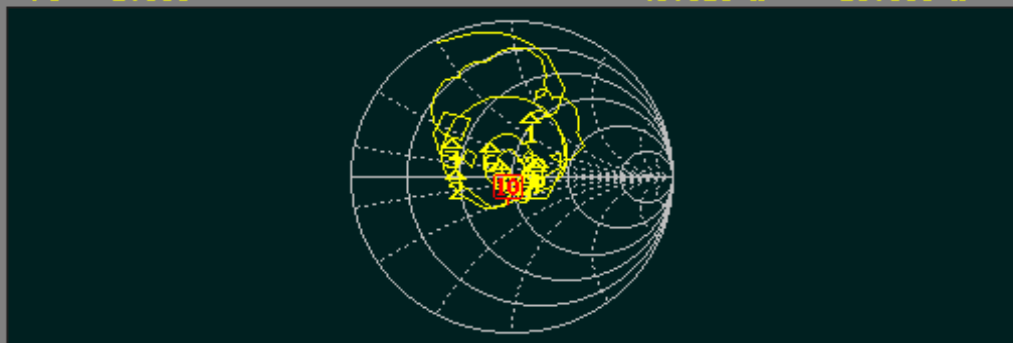
LOG MAG & DELAY [6]

LIN MAG & PHASE [7]

More 2/2 [8]

CH1 RFL SMITH(R+jX) MKR 10: 2.5GHz
 FS 1.000 45.516 Ω -16.395 Ω

Cor



START 500MHz [0.00 dBm] STOP 3GHz

CH1 MARKER LIST

1:	700.000MHz	40.409 Ω	41.744 Ω	9.491nH
2:	824.000MHz	25.423 Ω	2.038 Ω	393.685pH
3:	960.000MHz	20.089 Ω	12.642 Ω	2.095nH
4:	1.575 000GHz	65.303 Ω	12.637 Ω	1.277nH
5:	1.620 000GHz	65.510 Ω	16.150 Ω	1.586nH
6:	1.710 000GHz	35.684 Ω	16.130 Ω	1.501nH
7:	1.990 000GHz	48.189 Ω	1.704 Ω	136.318pH
8:	2.170 000GHz	42.181 Ω	9.128 Ω	669.487pH
9:	2.400 000GHz	58.362 Ω	2.712 Ω	179.877pH
10:	2.500 000GHz	45.516 Ω	-16.395 Ω	3.882pF

FORMAT

LOG MAG

PHASE

DELAY

SMITH
(R+jX)

SMITH
(G+jB)

POLAR

LIN MAG

More 1/2