

# GSM Antenna

**MODEL: TH-80(ST)**

GSM850/GSM900/DCS1800/PCS1900



## 1. GENERAL DESCRIPTION

Model No	P/N
TH80(ST)	TH80ST-SMA90

Below is a table summarizing the antenna design specification.

### 1.1 Electrical Properties

Parameter	Description
Frequency Band	800/900/1800/1900MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Electrical Wave	4/1 $\lambda$ Dipole
Return Loss	Please See Data-1
V.S.W.R	4.1 : 1
Antenna Average Gain	0 dBi
Note: Gain includes the cable loss	

### 1.2 Mechanical Properties

Parameter	Description
-----------	-------------

Antenna Type	External Antenna
Antenna Material	PU
Touch Type	Screw Type
Connector Type	SMA 90°(Male)
Antenna Dimensions	35mm ±2
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	Core tube	Black	01
02	SMA 90°(Male)	Nickel plating	01

  

The drawing shows a cylindrical antenna with a SMA 90°(Male) connector. The total length is 35 ± 2 mm. The connector length is 16.8 mm. Callout 1 points to the core tube, and callout 2 points to the SMA connector.

 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				800/900/1800/1900MHz	M/M		20071225	1
	TOLERANCE	X. XX±0. 15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
SURFACE ROUGHNESS	$\frac{S}{\nabla}$	APPEARANCE						

**3. Frequency**



