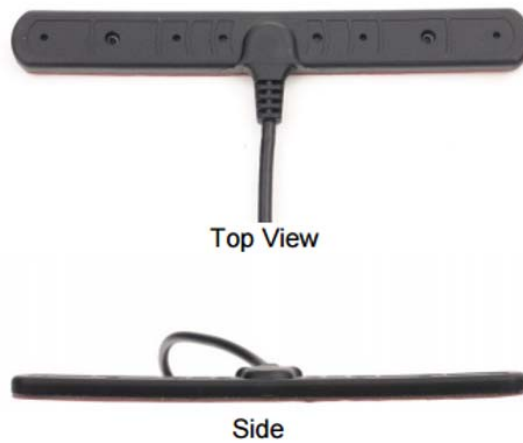


## Antenna Info:

- A list of antennas to be used with the transmitter. Include manufacturer, model number, gain (dBi), and description (e.g. dipole, yagi, patch, etc.)
  - Taogal antenna solutions
    - P/N GSA.8822.A301111
  - Peak Gain (dBi) 3dBi
  - Flat Bar



*Figure 1 Photo of RFID antenna*

- Drawing or photograph unless clear photos appear in the external photos exhibit





## SPECIFICATION

Part No.	:	GSA.8822
Product Name	:	T-Bar Penta-band GSM Antenna Works with GSM / CDMA / PCS / DCS /UMTS/ WCDMA
Features	:	Low profile for easy installation Fully customized cable and connector <b>RoHS Compliant</b>
Photo	:	



Top View



Side



## Specification

### 1.0 Introduction

The GSA.8822 T-Bar is flexible and robust for fast installation. It is designed for covert and convenient use in the Telematics Industry. It is ideal for tracking systems and cellular car kits.

The antenna has been subject to rigorous IP67 waterproof testing and can handle full immersion in water for extended periods of time.

### 2.0 Antenna Specifications

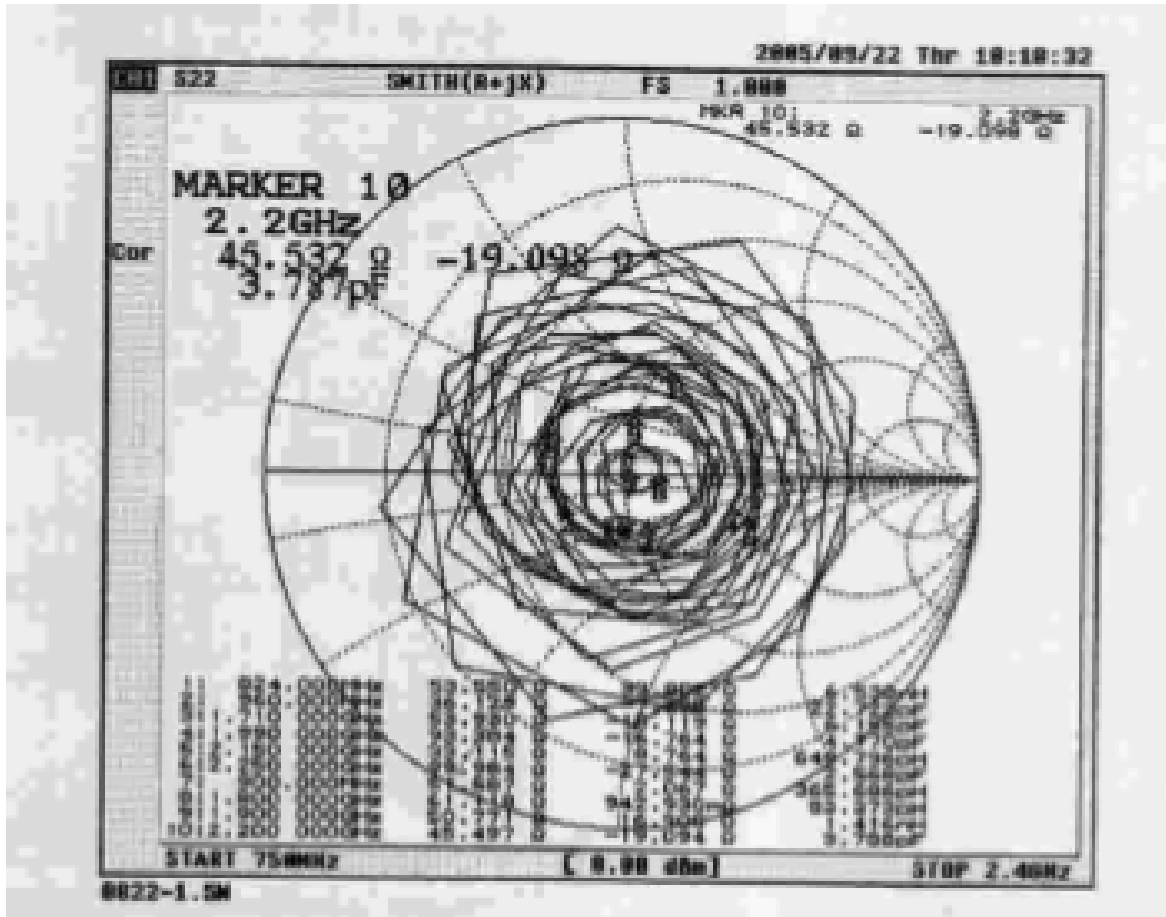
ELECTRICAL					
	AMP'S	GSM	DCS	PCS	UMTS
Band	824-896	880-960	1710-1880	1850-1990	1710- 2170
Average Gain	3dBi				
Polarization	Linear				
Impedance	50 ohms				
Input Power	10 watts				
Input Connection	Coaxial Cable - RG174 Standard, Fully customizable				
VSWR (Min performance)	<2.0:1				
MECHANICAL					
Dimensions (L x W x H)	Length 105.7mm x Width 14mm x Height 6.5mm				
Weight	40g				
Casing	UV Resistant TPE				
Waterproofing	Sealing Film				
ENVIRONMENTAL					
Waterproof	IP-67 - No internal water entry after 30mins immersion in 1M water				
Temperature Range	-40°C to +85°C				
Thermal Shock	100 cycles -40°C to +80°C				
Humidity	Non-condensing 65°C 95% RH				
Shock (Drop Test)	1m drop on concrete 6 axes				
Cable Pull	8 KGf				







## 4.1 Smith Chart





Specification

## 4.2 VSWR

