



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### Key Features

- Low Profile Design, 18mm
- Quad Band GSM/GPRS & 3G
- Screw/Through-Hole Mount Antenna
- 2.5dBi Gain



### Additional Considerations

- Compatible worldwide with any cellular GSM application
- Perfect for covert applications
- Vandal resistant
- Dual mounting – adhesive and screw mount

### General Description

The TANGO14 is a Low profile, robust and vandal proof range of antennas suitable for outdoor equipment like vending machines etc. The TANGO14 is 94mm in diameter and is only 18mm high.

It is IP65 rated, comes with double sided sticky pad shaped to the antenna and forms a good seal between antenna and equipment it is mounted to.

The Tango 14 is designed for covert applications where the user wishes to keep their antenna out of sight from unwanted eyes. Operating on GSM & 3G, the Tango 14 works well with various kinds of telemetry equipment, such as Siretta's Zeta and the Zoom terminal series. Its bolt through base allows this antenna to be securely fixed to the roof of vehicles. IP65 rating allows this antenna to be used outside where the antenna will be exposed to the elements.

The antenna has an M12 bolt and can be used with a mounting hole of between 13-20mm. The TANGO14 is a solidly made antenna to last for years and is available various lengths of cable and connector types.

Rev 1.3

## Key Specifications - Electrical

Temperature range:	-40 to +85°C	
Impedance:	50ohm	
VSWR:	<2.0:1	
Average Gain	2.5dBi	
Voltage and supply current:	3 - 5V DC 25mA typical	
Operating frequency:	GSM/GPRS 890-960 /1710-1880MHz	3G 2100MHz
Polarisation:	GSM vertical	

## Gain

### GSM

850MHz:	3.68dBi
900MHz:	2.68dBi
1800MHz:	-1.09dBi
1900MHz:	-2.44dBi

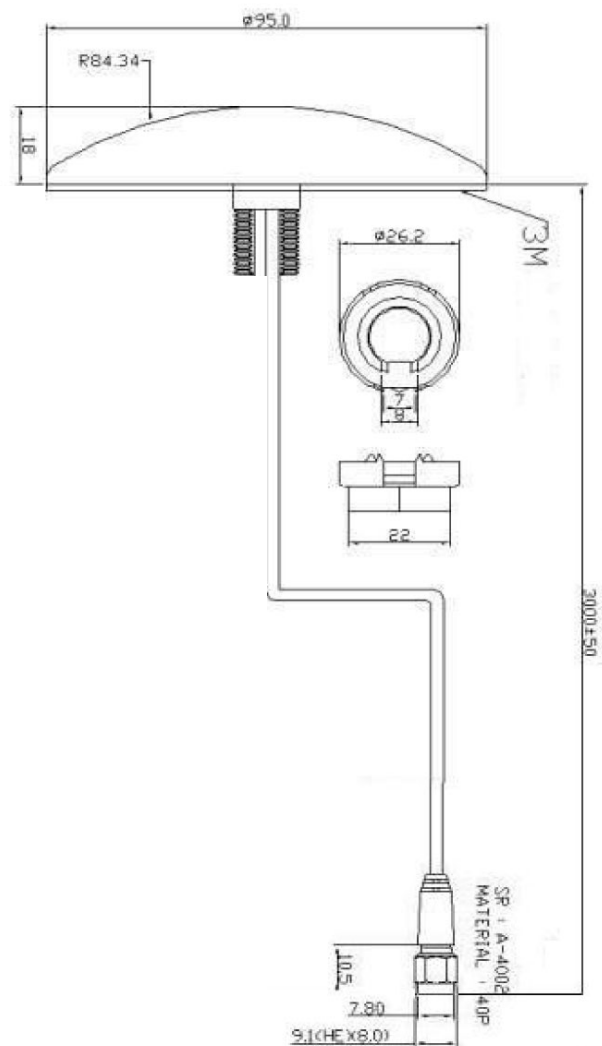
### 3G

2100MHz:	-5.05dBi
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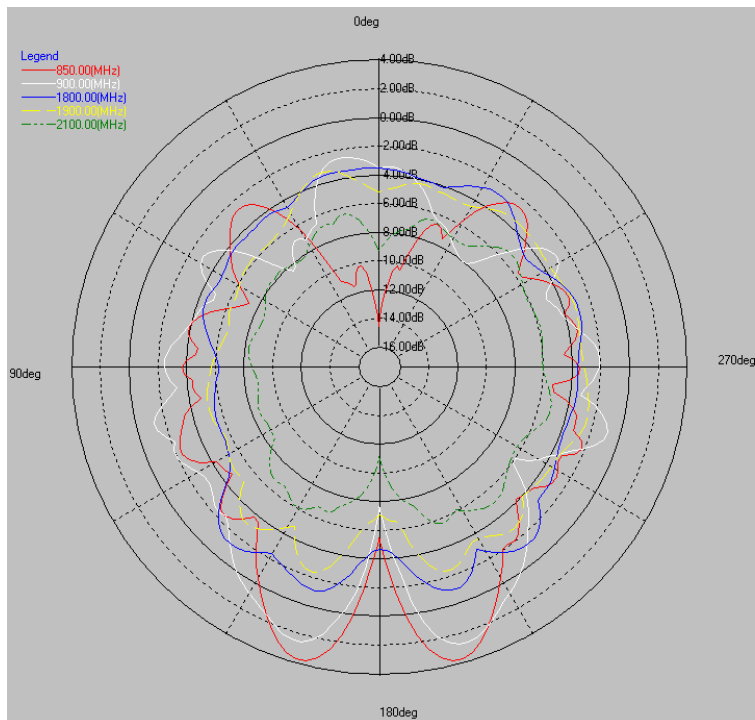
## Key Specifications - Mechanical

Dimensions:	ø95 x 18mm
Cable:	RG174 1m/3m
Connector:	SMA, TNC, FME BNC, N type as required

## Dimensions



## Gain vs. Frequency Graph



**UL Tested (Basingstoke, UK)**  
Part: TANGO14

## Ordering Details

Part Number	Description
TANGO14/1M/SMAM/S/S/22	Quad Band GSM & 3G Bolt Through Antenna, 1M Cable, SMA Male Connector
TANGO14/3M/SMAM/S/S/22	Quad Band GSM & 3G Bolt Through Antenna, 3M Cable, SMA Male Connector