



Key Features

- Quad Band GSM & 3G Compatible
- High gain of 4 dBi
- Through hole mount base
- Suitable for automotive applications
- IP67 Rated
- 320mm overall length
- 37mm overall base diameter

General Description

The Tango 18 operates on the 850/900/1800/1900/2100MHz GSM/GPRS/3G networks across Europe, Asia and Africa.

The Tango 18 is a through-hole mount antenna that operates on Quad Band GSM & 3G frequencies. It is a 1/2 wave omni directional antenna with a high gain of 4dBi. It is 320mm tall from the bottom of its base to the tip. The Tango 18 has a right angle screw base with a through hole screw thread that needs a 13mm hole. The cable can be screwed through a surface of up to 4mm thick. The cable protrudes from the base at a right angle and screws into the base via an FME female connector allowing easy fitment of the base itself. The clearance required on its underside of the surface to clear the base is 13mm.

Common applications for this 1/2 wave omni directional antenna are improving the cellular GSM & 3G signal strength either in static or motion based applications, such as workplaces (offices, factories, warehouses) or on top of vehicles (vans, lorries). Furthermore to this, the Tango 18 is IP67 rated which means it is safe to use outdoors.

Additional Considerations

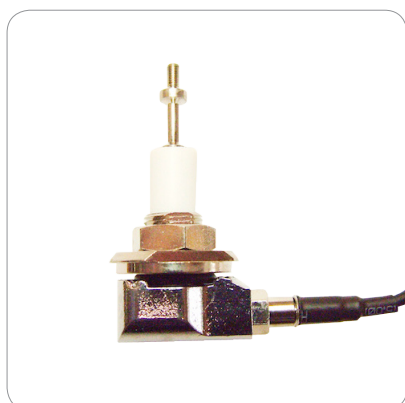
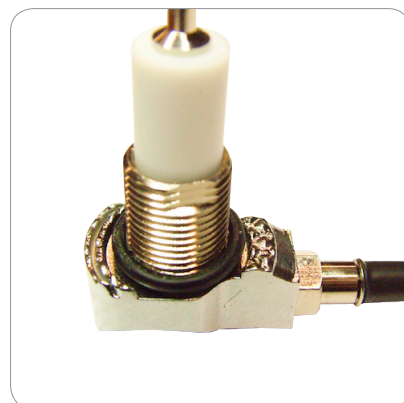
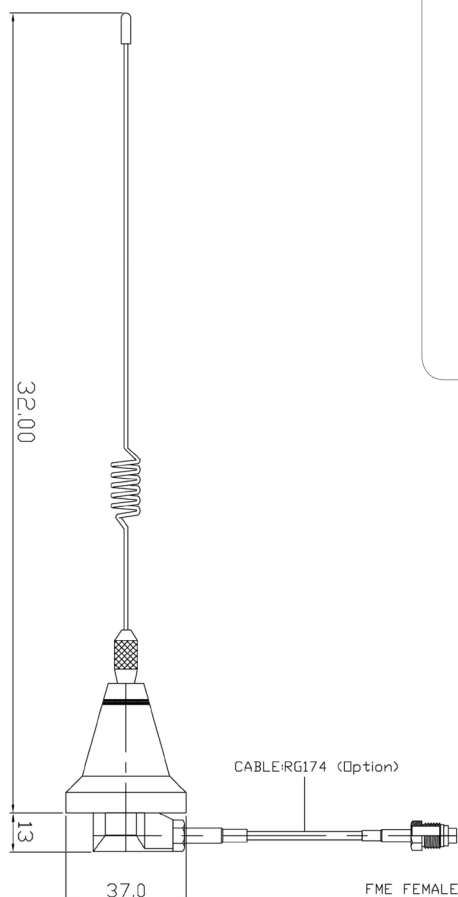
- Suitable for both indoor and outdoor applications
- Improves cellular GSM & 3G signals for mobile or stationary applications
- Works well to enhance mobile phone signal strength in a workplace
- Rugged and tough design

Rev 1.3

Tango 18

Quad Band GSM & 3G Through Hole Screw Mount Antenna

Tango 18 Mechanics



Key Specifications - Electrical

Temperature range:	-40 to 85°C
Humidity:	40 to 95% RH
Impedance:	50 Ohms
Gain:	4dBi
VSWR:	<1.8:1
Frequency range:	850/ 900/ 1800/ 1900/ 2170MHz
Polarization:	Linear vertical
Max Power	50W

Key Specifications - Mechanical

Dimensions:	320 x 37 x 37mm (lwh)
Cable:	RG174
Cable length:	1.5m or 3m
Connector:	SMA male
Through hole dimension:	13mm
Clearance needed for underside of panel to which antennas bolted:	13mm

Gain

GSM

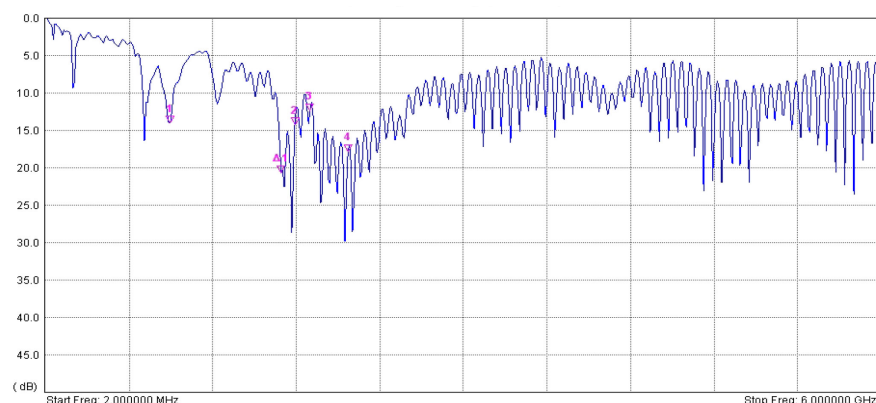
850MHz:	-1.03dBi
900MHz:	-1.09dBi
1800MHz:	-1.05dBi
1900MHz:	-2.29dBi

3G

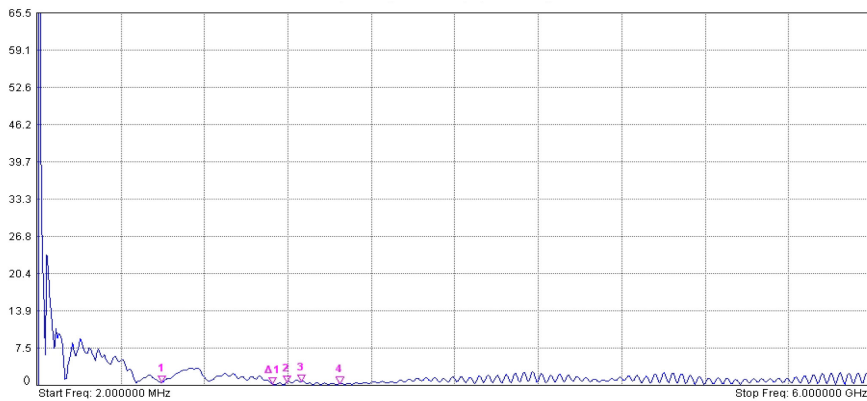
2100MHz:	-0.87dBi
----------	----------

Test Results

Log Magnitude

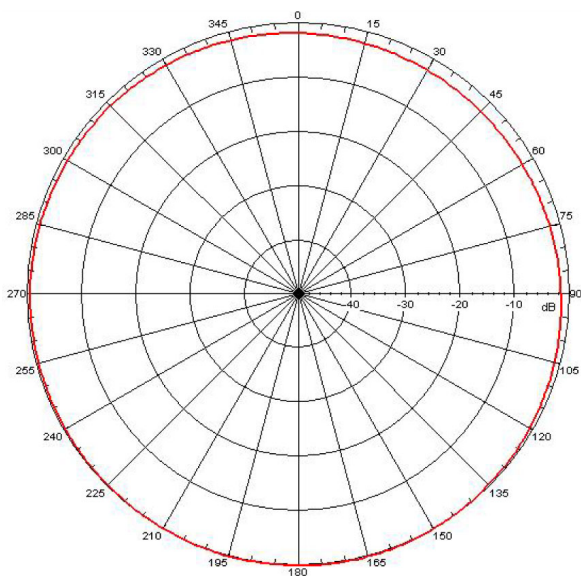


VSWR Graph

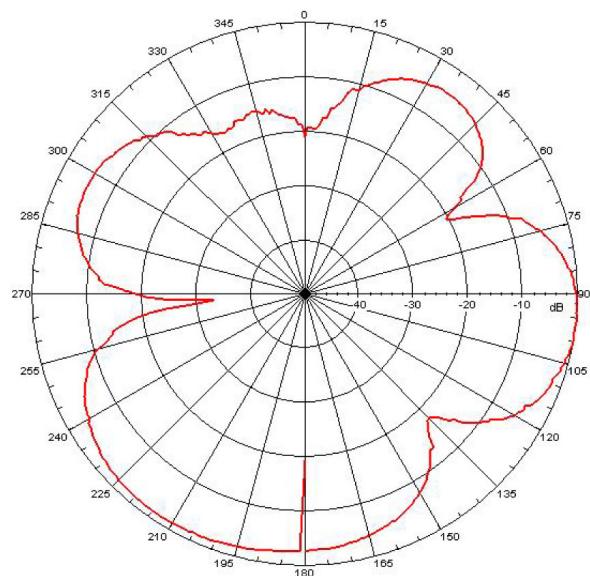


Radiation Pattern

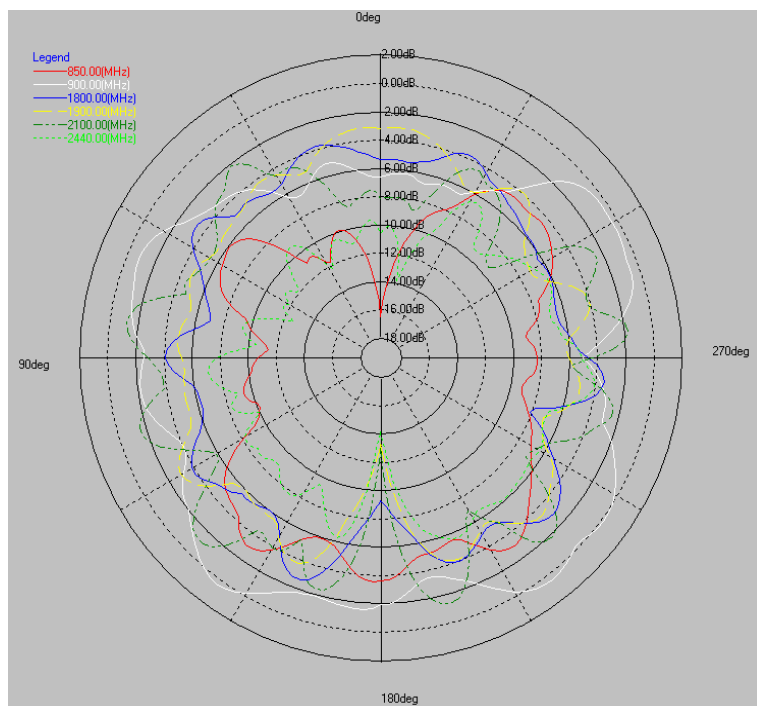
H Plane



E Plane



Gain vs. Frequency Graph



UL Tested (Basingstoke, UK)
Part: TANGO18/SMAM/3M/S/S/19

Ordering Details

Part number	Description
TANGO18/SMAM/1.5M/S/S/19	Quad GSM & 3G Through Hole Screw Mount Antenna, 1.5M RG174 Cable, SMA Male Connector
TANGO18/SMAM/3M/S/S/19	Quad GSM & 3G Through Hole Screw Mount Antenna, 3M RG174 Cable, SMA Male Connector