ZCG

Model

SG2000-MM

Super Gain

Upper 4G/3G mast mount mobile phone collinear

Upper 4G/3G or Telemetry

1920-2170MHz

6.2 dBi Gain

Recommended for Mast Mounting

- Mounts utilising 1 x UB3-SS or 2 x EB1-SS - order seperately
- N-type female fitted to cable as standard or as per specified requirements

INSTALLATION GUIDE

www.zcg.com.au

ANTENNA DESCRIPTION

The **SG2000-MM** mast mount collinear is factory tuned for the upper 4G/3G mobile phone network utilising the 1.92-2.17GHz frequency range.

With 6.2 dBi gain, the antenna will deliver consistent and dependable results with maximum efficiency, particularly where signal strength is marginal.

The aluminium mount section, ferrule and fibreglass radome stands 55 cm tall.

100mm of MIL-SPEC RG58 low loss stranded cable, bottom exits through the mount section. A N-type female jack coaxial connector is fitted as standard or as per specified for your requirements.

A detailed specification sheet is available to download from **www.zcg.com.au**

TUNING

The antenna has been tuned in the factory to cover the upper 4G/ 3G mobile phone or wireless data/telemetry frequency range 1.92-2.17GHz. VSWR has been optimised to better than 1.6:1 across the full frequency range 1920-2170MHz.

This tuning cannot be altered.

SELECTING THE MOUNTING POSITION

No metal ground plane is necessary for the antenna to operate effectively.

To achieve best performance from your antenna, consider these important principles when selecting the mounting point.

1. ***Mount the antenna in as high a place as possible.***
2. ***Mount the antenna as far away from other antennas and metallic objects as possible to avoid distortion of the 360^{o} omnidirectional pattern and interference. At least 350 mm side clearance is desireable, preferably more.***
3. ***Mount the antenna vertical, not at an angle.***
4. ***Ensure clamp is tight, but not too tight as to distort mounting tube.***

SEALING CONNECTIONS

For the harsh Australian environment, it is vital that all connections be well sealed with at least two layers of self-amalgamating tape to prevent ingress of moisture followed by a layer of UV stabilised PVC tape. PVC or electrical tape by itself will not be adequate.

Installation is now complete.

MAINTENANCE

This antenna has been designed for high reliability and low maintenance. We recommend that you conduct a routine annual mechanical inspection of the antenna, feeder cable and connections.

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