

Installation Instructions

LPBEM-6-60 Magnet Mount Antenna

SW3-217 - Document Version 1

A. Introduction

The LPBEM-6-60 antenna range covers 2G/3G/4G and 5G frequencies (617-960/1710-6000MHz). The antenna is supplied with an integrated magnet for fitting to ferro-magnetic metal / panels or enclosures but can also be mounted on non-conductive / non ferro-magnetic surfaces such as a desk although if the antenna is mounted to a non-conductive surface this will detrimentally affect performance at lower frequencies and the antenna will not be securely retained.

The antenna is supplied with fitted RG174 cable and is available with a variety of cable lengths and co-axial connectors.

B. Mounting Requirements and Selecting Location

Select a mounting location - this location should be flat and clean for maximum magnetic retention. If the magnet is being used to retain then the mounting panel must be a ferrous metal.

If mounting to a vehicle it should be ensured that the vehicle will not exceed 160kmph / 100mph. If mounting to a vehicle it should also be ensured that the antenna is positioned so that it is not vulnerable to impact from low clearance scenarios.

Measure to check for central position if applicable. If the antenna will be co-located with other antennas or equipment please try to ensure at least 30cm (1') of clearance around the antenna in order to avoid de-tuning and interference issues.

C. Antenna Mounting

The antenna can be secured with the integrated magnet. Clean the mounting panel with an alcohol swab and allow to dry. Fit the antenna firmly to the mounting panel. If the antenna needs to be moved or re-fitted ensure that the antenna is handled using the body of the antenna, do not hold, carry or de-install the antenna using the coaxial cable.

D. Routing and Terminating Coaxial Cable(s)

Route the coaxial cables to the radio equipment, taking care to avoid running them adjacent to any existing wiring or fouling any moving components. Be careful to observe the cable bend radius of 12mm (1/2") for the RG174 cable.

E. Commission and Test

Check the comms cables:

- Carry out VSWR check, the VSWR should measure <2.5:1 in transmit band.
- Connect the Cellular/LTE cable.



DO NOT

- operate the transmitter when someone is within 20cm (8") of the antenna.
- operate the equipment in an explosive atmosphere.
- attempt to install the antennas without the proper safe equipment to access the install location.
- install the antenna in such a way that it may fall, or be knocked off and cause injury.
- exceed 160Kmph (100Mph) if mounting to a vehicle.
- hold, carry or de-install the antenna using the cable.
- chew parts or put them in mouth, keep away from unsupervised children.



European Waste Electronic Equipment Directive 2002/96/EC

Waste electrical products should not be disposed of with household waste. All electronic products with the WEEE logo must be collected and sent to approved operators for safe disposal or recycling. Please recycle where facilities exist. Many electrical/electronic equipment retailers facilitate "Distributor Take-Back scheme" for household WEEE. Check with your Local Authority or electronic retailers for designated collection facilities where WEEE can be disposed of for free.



Directive 2011/65/EU (RoHS 2)

RoHS 2 compliance is declared per Directive 2011/65/EU and its subsequent amendments with exemption 6.c applied.

REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals, EC 1907/2006)

This product contains Lead (CAS No. 7439-92-1) which is classified as an SVHC (Substance of Very High Concern) as being toxic to reproduction under Article 57c. of REACH.

Do not chew parts or put them in mouth, keep away from unsupervised children.

Dispose of parts as WEEE waste do not send to landfill.

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