

# VHF Band Magnetic Mount Antenna

## WB30175W

The WB30175W is a magnetic mount antenna for applications where a quick setup and removal of the antenna is required or where a permanent installation of the antenna on a vehicle is not possible.

- Excellent performance over wide bandwidth
- Compact magnetic mount for easy-to-setup temporary installations



| Product details*  |                                         |
|-------------------|-----------------------------------------|
| Frequency range   | 30 – 175 MHz                            |
| Matching          | Passive                                 |
| Polarization      | Nominally vertical                      |
| Antenna type      | Monopole, ground plane required         |
| Radiation pattern | Omnidirectional                         |
| Gain              | (See typical patterns on Page 2)        |
| VSWR              | ≤ 3.5                                   |
| Nominal Impedance | 50 Ω                                    |
| Power rating      | 50 W (RMS)                              |
| Standard color    | Black                                   |
| Radiator          | Steel whip with shock absorption spring |
| Footprint         | Ø 88 mm                                 |
| Height            | 1520 mm                                 |
| Weight            | 0.95 kg                                 |

| Installation*      |                                                                                            |
|--------------------|--------------------------------------------------------------------------------------------|
| RF connection      | Female N-Type connector                                                                    |
| Mounting           | Ø 88 mm magnet (vertical holding force typically 280 N when mounted on 0.8 mm steel sheet) |
| Surface protection | Rubber coating                                                                             |

\*Specific adjustments on request

| Order number | NSN              | Product                                                                                            |
|--------------|------------------|----------------------------------------------------------------------------------------------------|
| WB30175W     | 5985-58-000-3183 | Antenna as described above                                                                         |
| WB30175W-R1  | -                | WB30175W with a radiator that can be split into two parts for transportation                       |
| WB30175-SC1  | -                | WB30175W with additional wire loop (Ø ~5 cm) attached to antenna base for safety tether connection |

### Safety Warning:

Great care should be taken when handling strong magnetic products. Magnetic mounts may cause painful pinching injuries. When using a magnetically mounted device on a moving vehicle the device may lift off from the vehicle even at moderate speeds in case of collision. Therefore a secondary retention system should always be used to prevent unintentional detachment or loss of the device (the properly tightened feeder cable could possibly be used for this purpose).

For maximum grip the surface of the vehicle and the bottom of the magnet should be dry and clean of dirt, snow and ice prior to attaching the device.