

# Heavy Duty Navigation Antenna

## E1215W

The E1215W is a heavy-duty magnet mount vehicle antenna for applications where fast and robust temporary installation of antenna is required still providing optimal L1/L2 GPS signal reception.

- Rugged, low-profile antenna construction
- Built-in low noise amplifier to enable long cable connection to receiver
- High outer band attenuation with integrated filtering



| Product details*                                      |   |
|---|---|
| Frequency band  | L1 : 1575.42 MHz $\pm$ 12 MHz<br>L2 : 1227.60 MHz $\pm$ 12 MHz      |
| Polarization  | RHC (Right Hand Circular)   |
| Antenna type  | Active ceramic patch antenna  |
| Gain (typical)  | L1 : 21 dB $\pm$ 1.5dB<br>L2 : 20 dB $\pm$ 1.5dB                    |
| Noise Figure (typical)                                | L1 : 2.6 dB<br>L2 : 3.0 dB  |
| P <sub>out</sub> 1dB gain Compression point (typical) | +2dBm (1575.42MHz)<br>-2dBm (1226.7MHz)                             |
| Nominal Impedance                                     | 50 $\Omega$   |
| Outer Band Attenuation                                | 100MHz~1180MHz 40dB<br>1280MHz~1520MHz 30dB<br>1620MHz~6000MHz 45dB |
| Power supply (fed through signal cable)               | 1.8 - 5.5 V (16 mA typical)   |
| Standard color  | Black   |
| Height  | 130 mm  |
| Diameter  | 140 mm  |
| Weight  | 1.4 kg  |

| Installation* |  |
|---------------|--|
| RF connection | Female N-type connector  |
| Mounting      | $\varnothing$ 88 mm magnet (vertical holding force typically 280 N when mounted on 0.8 mm steel sheet) |

\*Specific adjustments on request

| Order number | Product                    |
|--------------|----------------------------|
| E1215W       | Antenna as described above |