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| <b>ANT S.r.l.</b><br>Via della Concordia, 4 – 37036<br>S. Martino B/A (VR) - Italia<br>Tel. +39 045 8781380<br>Fax +39 045 8795335<br>e-mail: <a href="mailto:commerciale@antsrl.eu">commerciale@antsrl.eu</a><br><a href="http://www.antsrl.eu">www.antsrl.eu</a> | <b>DESCRIPTION</b>  |  |
|  | <b>Omnidirectional antenna for mounting on box</b><br>with sealing gasket (flexible whip available)<br>suitable for applications<br>ISM 433, LoRa, LoRaWAN, Sigfox, ISM 868-915 |   |

**Garbino ¼ 433**  
**Garbino ¼ 868/915**

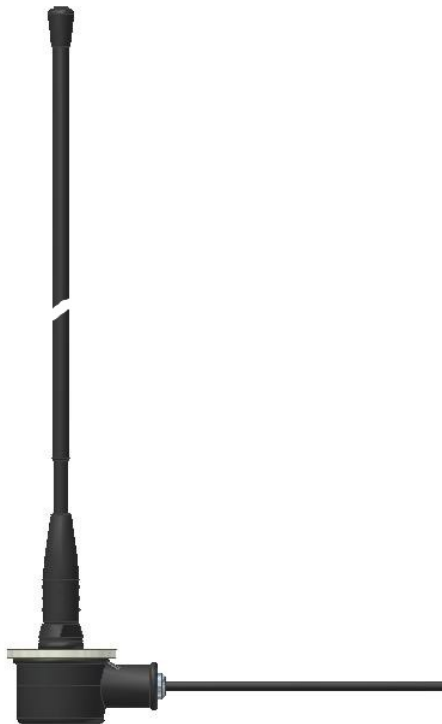
**P/N: A22-000**  
**P/N: A22-011**

**ELECTRICAL DATA**

Frequency range:  
(VSWR < 2 : 1)  
Garbino ¼ 433: 420-450 MHz  
Garbino ¼ 868/915: 860-920 MHz  
Impedance: 50 Ω  
V.S.W.R.: < 1.5 : 1  
Max Power: 10 W  
Polarisation: Linear  
Radiation: Omnidirectional  
Gain: about 2.15 dBi

**MECHANICAL DATA**

Dimensions (about)  
Garbino ¼ 433: Ø14x180 mm  
Garbino ¼ 868/915: Ø14x120 mm  
Connection: On request  
Cable: RG174 0.3 m (other on request)  
Operating temperature: -40° / +80°C  
Weight: 0.050 kg  
Radiating element material: Steel, brass



**ANTENNA WITH  
STANDARD WHIP**  
Antenna with rigid whip



**ANTENNA WITH  
OPTIONAL WHIP**  
Antenna with flexible whip



**Protection against oxidation:** the antenna is designed to be able to withstand the worst climatic conditions, and so that the oxidation of its parts is prevented with the plastic parts being made of raw materials resistant to external environmental agents.  
**Protection against accidental hits:** the antenna is designed so that persons are protected from accidental hits against its projecting parts.  
**RoHS Directive:** The antenna complies with the RoHS Directive and its subsequent.

**MOUNTING INSTRUCTIONS:**

Please mount the antenna on box (through a Ø7 mm hole).

**WARNING:**

For correct installation, please mount the antenna so that it is at least 5 cm apart from any metal wall and so that it is perpendicular and possibly placed in the centre of the ground plane.  
To achieve the stated performances the antenna requires a proper ground plane.

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ISM 433, LoRa, LoRaWAN, Sigfox, ISM 868-915



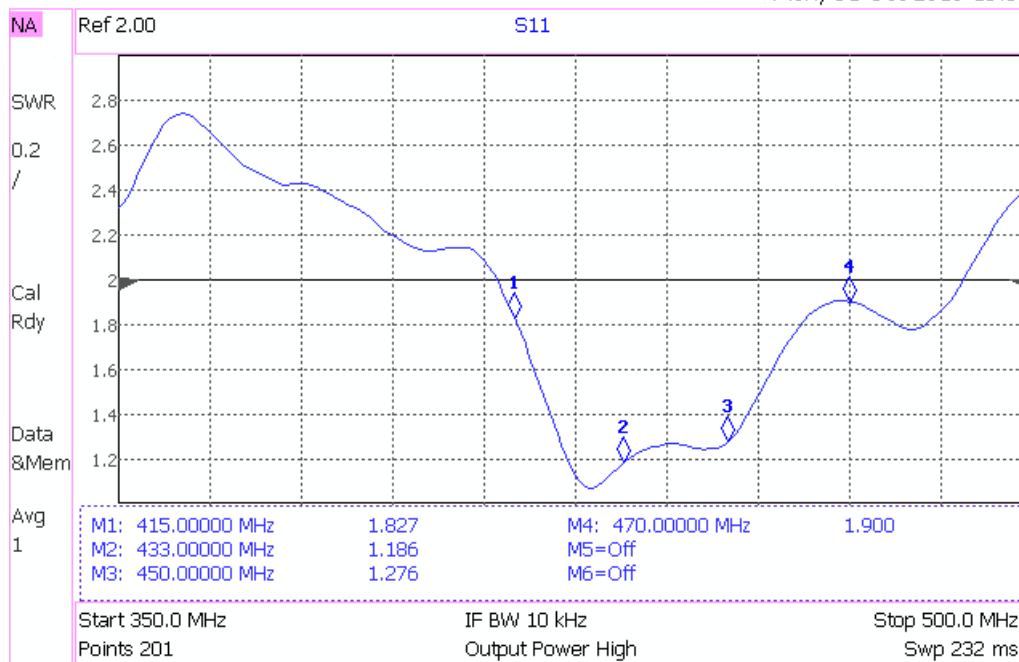
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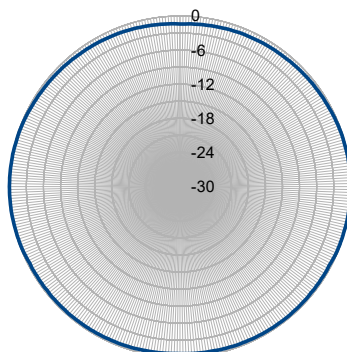
## V.S.W.R. (Frequency centre 433 MHz)

Keysight Technologies

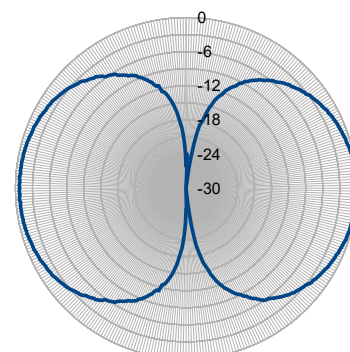
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## Radiating Pattern



H-plane



E-plane