

Highly Sensitive NFC Z-Axis Low-Profile Antenna

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In an effort to meet the growing demands for NFC antennas, [PREMO](#) [1] (Barcelona, Spain) has developed a new Z axis SMD ferrite antenna suitable for signals reception/transmission at 13,56MHz. [ZC1003HF](#) [2] series is a highly sensitive and [compact solution](#) [3] (10x10x3.1mm) specially designed for those NFC applications where size of components is critical. This innovative antenna requires less board space compared with PCB printed loop antennas and offers up to 30% longer reading distances. Furthermore, this Z-axis coil's design offers an outstanding electrical performance and mechanical robustness, providing an excellent reliability, as they are designed and validated with automotive standards. [ZC1003HF](#) [2] series is offered with 2,5µH/13,56MHz inductance value and can be tailored according to customer's specifications. The antenna includes:

- High performance NiZn ferrite core material ($>10^6$ Ohm·m).
- Low initial permeability to work at high frequency.
- Stable performance in a wide range of temperature (-40°C to +100°C).

For more information, visit www.grupopremo.com [1].

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Links:

[1] <http://www.grupopremo.com>

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[2] <http://www.grupopremo.com/in/file/962>

[3] http://www.grupopremo.com/in/product/571/card/591/rfid/nfcantennas/zc1003hf_smdzaxisfornfcapplications/dimensions.html