Short Range Antenna LF for smart entry system.
External housing + LPM (cover)

Features
PREMO offers a short antenna with high mechanical robustness and also has the best performance electrical on metal surface due to its bridge type design external housing.

Characteristics

- Short antenna (length until 150 mm).
- External housing shape H-bridge Material PBT-GF30% or PA66-GF30%
- Strong anchor points which provide an easy assembly and will ensure mechanical robustness
- Higher impact absorption and mechanical reduction preventive.
- LF antenna module inside external housing is to cover by Low Pressure Technology (PM)
- LPM is a well know technology in PREMO.
- Very fast to produce (No Curing needed)
- IP56 grade Waterproof
- Connector Waterproof located outside assembly housing plastic base.
- High stability in temperature (-40ºC up to +85ºC).
- LF inductance adjusting below +/- 2kHz.
- Custom L-C value (F-Resonant)
- This antenna is designed based on AECQ-200.

Specifications

- Operating Frequency @134.5Khz
  @25ºC @1Vac. (L+C in series)

  | L (mH) | 0.205 |
  | Csc (nF) | 6.8 |
  | Q (L+C) >135 |
  | Rac(Ω) <1.5 |
  | Arms | 1A |

The antenna is measured in resonant mode.

Nomenclature Description and Schematic Diagram

Components of the Part

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Electrical Specifications

- Operating Frequency @134.5Khz
- Ø25% @Vac. (L-C in series)