



NFC Outer Door Handle
Modelname: DH501

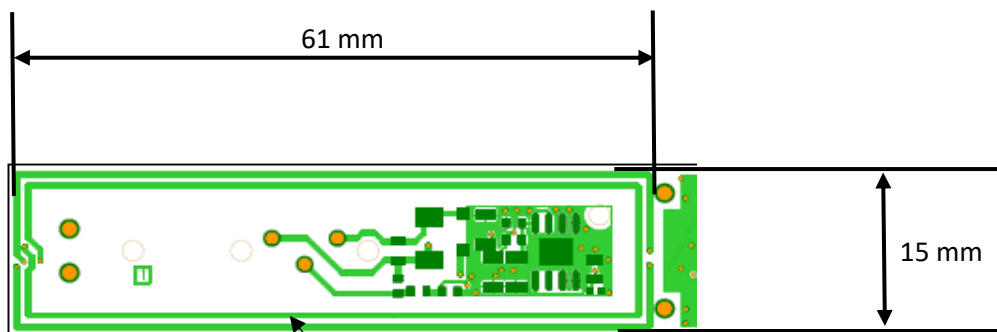
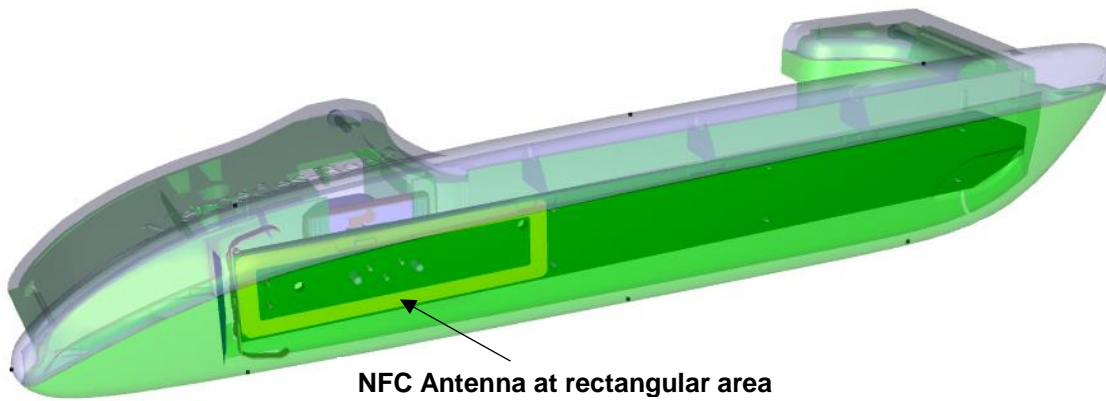
Antenna Information

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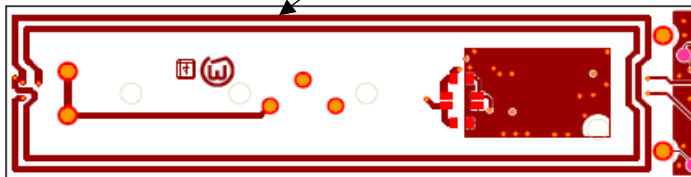
1 Communication characteristics

1.1 NFC

Transmission Mode:	magnetic coupling
Transmission center frequency:	13,56 MHz
Maximum magnetic field strength:	7.5 A/m
Antenna:	loop antenna printed onto 4 layer PCB onto 2 layers Layer Size Loop Antenna (~61mm x ~15mm)

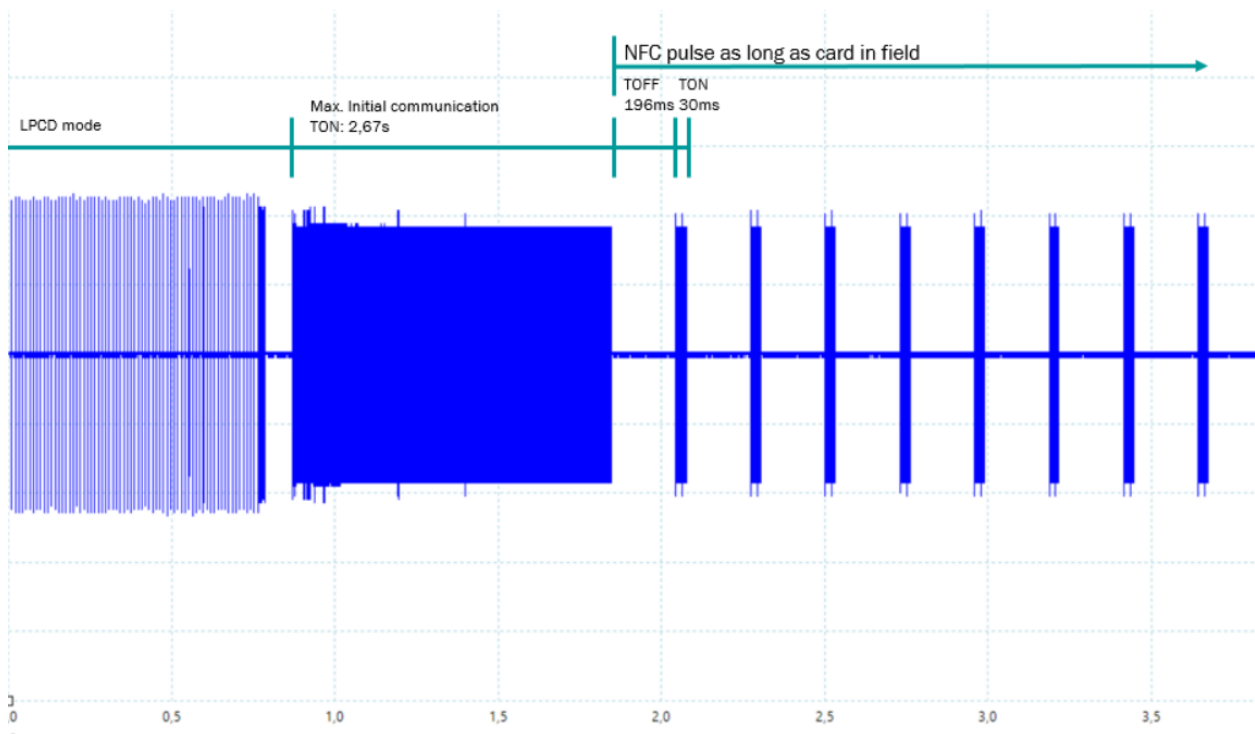


NFC Antenna on 1st and 4th PCB Layer TOP and BOTTOM



1.2 NFC Antenna

Operating Frequency	13.56 MHz
Possible Operating Modes	NFC Devices defined according to ISO/IEC 14443A. NFC-Smartphones with NFC-Standard Tag Type 4A support NFC-Smartcards with NFC-Standard Class 1 Type 4A
Antenna Location	4 Layer PCB - Printed NFC-Antenna onto 2 PCB Layers
Minimum separation distance from radiating element to user	5.2 mm
Antenna Wire Diameter	PCB Trace 0,5 mm wide, 35µm thick
Antenna Coil Length	588 mm
Maximum power to antenna/coil	0,845 W
TON (1 cycle)	30 ms
TOFF (1 cycle)	196 ms
Duty Cycle	13,27% (max)
Events per 6 minute period (max)	twice - lock and unlock vehicle door via NFC outer door handle e.g refuel and pay refueling process



Blue: NFC Field