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TECHNICAL REPORT
HID GLOBAL CORPORATION
OK5122 Reader Board

March 24, 2020

This report concerns the Intentional Radiator and Antenna portions of the OK5122 Reader Board.

Equipment Type: Module

Equipment Authorization: Part 15, Subpart C

Frequency of Operation for OK5122 READER BOARD: 13.56 MHz

Equipment Market: Industrial

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RF transmit frequencies 13.56 MHz

Antenna

The antenna is split up into two turns in one layer with an approximately dimension of 54.3 x 62.0 mm. The estimated inductance is 2.45uH with a 3.7 +j241 impedance. Antenna gain is 1 dBi.

Ground System

For the OK5122 READER BOARD, the transmitter driver circuitry, analog circuitry and digital circuitry all share a common ground plane. The DC grounding is achieved through the high-density connector which attaches to the host.

Antenna: 13.56 MHz

Reader Type – Smart Card Reader

External PCB Antenna to main board – PCB: 55.88 mm x 66.00 mm.

Antenna: approximately 54.3 mm x 62.0 mm.

Gain: 1 dBi

Field Strength: 53.5 dBuV/m @ 3 meter spacing

Transmitting Frequency: 13.56 MHz

Reader Type – Smart Card Reader Board.

Model	Transmitter power at antenna port
5122	67.1 nW
	EIRP

