Antenna Info. Cardinal Health RFID System FCC ID: WSIRFIDSNGLAUXCAB

Part Number: 127370-01 Rev. 04   ASS'Y, ROHS, RFID ANTENNA

Description: Hybrid Loop – Cylinder shaped solenoid and multi-turn loop connected in parallel

Physical Characteristics

Physical Size (REF SRD RFID-13)

See component and assembly drawings for exact dimensions and tolerances.

Internal dimensions shall be (± 0.08"):   20.34" D x 17.48" W x 13.57" H

Note: A stent box that is about 0.25" longer than the depth dimension can fit inside a compartment due to the gap between the compartment and the door.
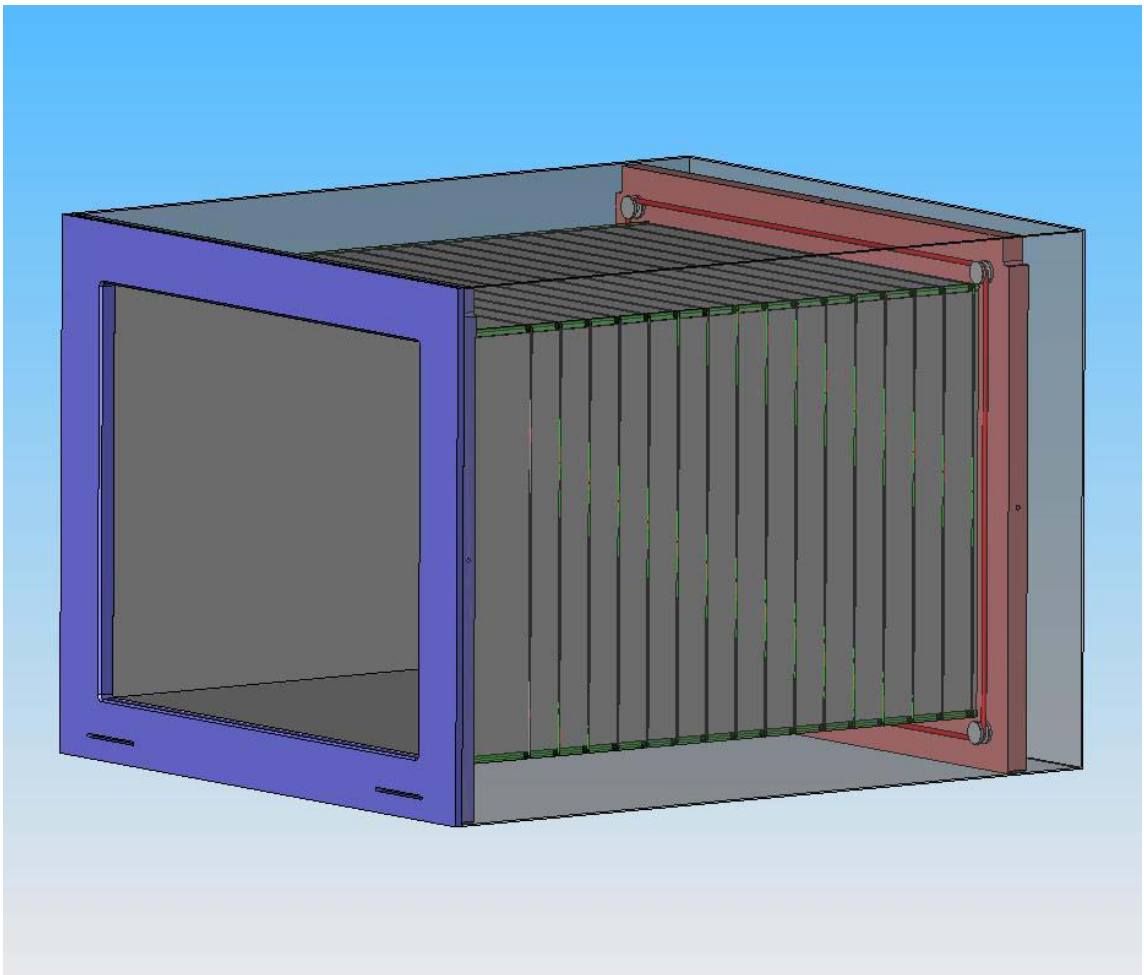

Figure 1 - Antenna Assembly (Shield is transparent to show internal windings)
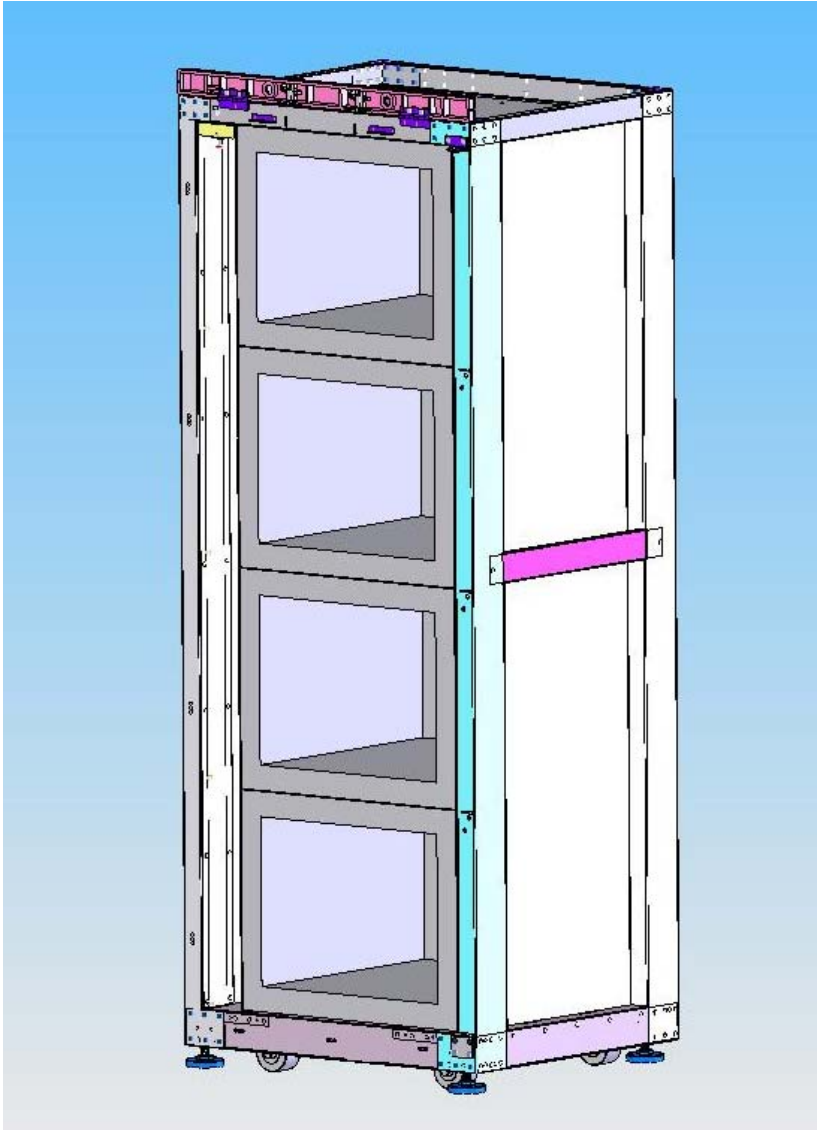
Figure 2 - Aux cabinet with stack of four antenna assemblies installed, doors removed for clarity

Weight

The Antenna Assembly shall be less than or equal to 50 Lbs

Physical Interface

The antenna shall mount into AUX cabinet without the need to attach or screw down any mounting brackets.

It shall be retained without the need for any additional screws. Use of a retaining slide in bracket is acceptable but the bracket shall be held in place once the cabinet is fully assembled cabinet without requiring additional screws.

Electrical Characteristics

Electrical Interface

A single shielded cable harness for each antenna (containing multiple wires) shall provide the electrical interface from the antenna to the reader board.

Grounding

The antenna cable harness shall contain wires for:

Antenna ground

Antenna shield

Interconnection/Connectors

Each antenna shall be connected to a reader board assembly with a unique (to the AUX Cabinet) cable connector housing.

Keying

The antenna cable connector housing that connects to the reader board shall be keyed so that it can only be connected in one orientation.

Antenna connector pin definition:

Pin	Signal	Description
1	Antenna Output	Output signal to antenna
2	Antenna Return	Antenna power return
3	Ground	Ground conductor from antenna
4	Shield	Antenna shield connection