Battery

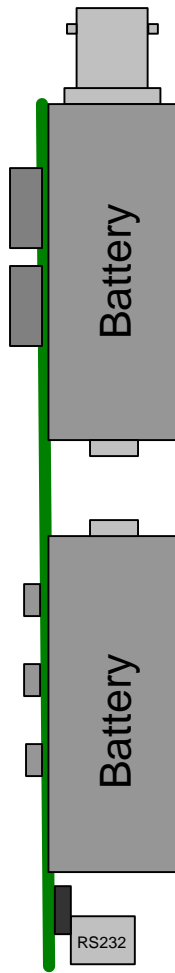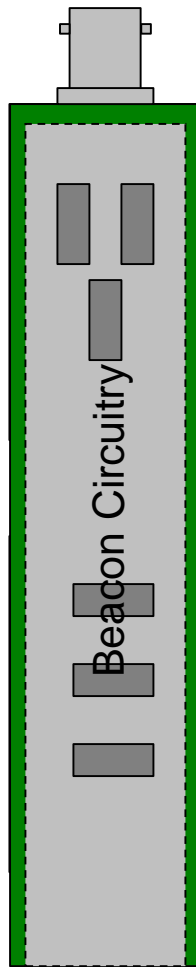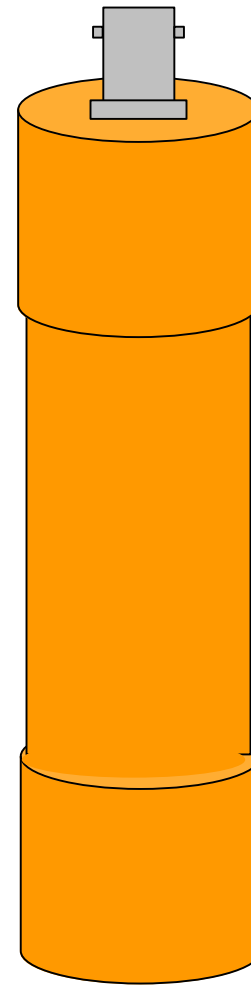Battery

RS232

**Battery-Side
View**

Battery

Battery

RS232

**Edge
View**

Beacon Circuitry

**Circuit-Side
View**

**External
View**

EH Antenna Test Beacon
Conceptual View
7-SEP-06

# EH Test Beacon
## Features & Specs

- Frequency – 7.0 to 7.3 Mhz; user programmable; 10 Hz steps
  (Frequency generated by crystal-referenced DDS)
- Power output – 0.5 watt nominal
- Powering: 2(ea) 9V battery
- Programming Method – RS232; 9600 baud; ASCII menu-driven
  (Can be programmed with PC & Hyperterminal)
- Data Transmission Method: Morse ON/OFF keying; speed programmable
- Transmission Interval: Programmable; pseudo-random & deterministic modes available
  (Pseudo-random mode allows 2 beacons on one frequency)
- Station ID: Morse; Programmable
- Beacon ID: Morse; Programmable
- Aux Telemetry Data: Battery voltage, RF output voltage, RF output current
  (These metrics transmitted every "nth" cycle, where "n" is programmable;
  output power & antenna impedance can be remotely determined form these)
- Packaging – Tubular copper pipe w/ removable end cap
  (Copper housing is to shield the beacon from the antenna's RF fields; removable
  end-cap allows battery replacement & programming)