

Description of Operation

The DUT continually interrogates for a transponder. During this interrogation, the DUT transmits 54 ms wide pulses with 132.5 ms period. When a transponder is found the DUT significantly decreases its peak output power and initiates a charge phase. This generates an electromagnetic field around the antenna coil from which the transponder accumulates and stores energy on its internal charge capacitor. This energy is used to power the transponder in the read phase, where it sends back an id/control code after each charging pulse. The code is then validated against a known value and depending on match, a signal is returned to the controller module.