Description of Operation

The ITM is a component of the Ford Passive Anti-Theft System (PATS) and is the interface between the transponder located in the key and the vehicle Body Control Module (BCM). The transponder derives its energy from the 125 kHz ASK LF waveform. The transceiver has three hard wire connections, PWR, GND, and LIN. PWR is supplied by switched ignition when the vehicle key is inserted in the lock cylinder and in the Run/Start positions. LIN communication is a dedicated node between the ITM and BCM. The BCM is the master device and the ITM is the slave. The transceiver antenna is formed by a coil connected in series with a capacitor to form a series resonant circuit. An internal H-bridge circuit drives the antenna differentially from the PJF7992 IC.