



Re: Certification for Lear Corporation
TPM Wheel Electronic
FCC ID: KOBHT10TPM
IC: 3521A-HT10TPM

DESCRIPTION OF OPERATION

The product for which certification is pursued will be manufactured for HMG (Hyundai Motor Group) by Lear Corporation for automotive applications. The module is intended to report Tire information like pressure and temperature, along with battery information to a central receiving module. This device is called a wheel electronic (WE).

TECHNICAL DESCRIPTION

The microprocessor makes interval measurements of pressure and temperature. The data is then transmitted by RF to the receiver at certain intervals. The code is carried by a 315 MHz carrier with FSK modulation and radiated through the valve. The data code is conditional diphase modulation format to express bits "0" and "1". The 315 MHz transmit frequency is generated by a PLL, stabilized by a crystal.