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OSS Electronics  
24175 Research Dr.  
Farmington Hills, MI 48335-2642  
Tel 248.478.7210  
Fax 248.478.7241

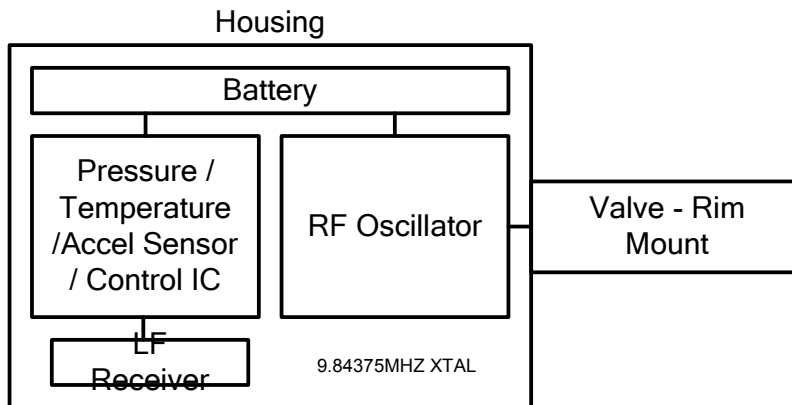
RE: Certification for Honda MY08 FSK Baseline TPM Sensor

Model #: 217652-101  
FCC ID: GQ4-36T  
Canada IC: 1470A-17T

**PRINCIPLES OF CIRCUIT OPERATION**

The sensor incorporates an ASIC to measure the parameters within the tire. The ASIC outputs the measured data in digital pulses. The digital data is frequency modulated. The transmitted signal uses Frequency Shift Keying (FSK). The carrier frequency of the sensor is 315 MHz typically. The worst case frequency shift of the carrier is 314.877MHz for the low frequency and 315.127MHz for the high frequency shift. The receiver bandwidth must be wide enough to pass the transmitter worst case frequency shifts. Reference Block Diagram in Figure 3.

**BLOCK DIAGRAM**



**Figure 3. TPM Sensor Block Diagram**