Technical Description

Model:TRMS-200-11002

To receive information from both TRMS-RFS-FS006 and TRMS-RFS-DS002, this receiver was designed, it can contact a TRMS-RFS-006 and another three TRMS-RFS-002 simultaneously.

RF section:

Band-pass filter of CF1 filters the unnecessary signals from antenna, and the LNA which including Q1,R4,L4 , amplifies and sends the just signals to U1, in which contains oscillator, mixing and demodulation circuit, quartz X1 and the included oscillator circuit in U1 provide the 316.8MHz local frequency, demodulation is implemented in U1, finally, the baseband signal is sent to U2(MCU) through 13th pin of U1. Voltage regulator of U5 provide power supply of 3v for UHF circuit.

MCU AND DRIVER

X2 provide MCU(U2) main clock, the signals at 13th pin of U1 is decoded by MCU to control peripherals, voltage regulator of U4 convert DC 12v to 5v supplies MCU, LED color is alterable to indicate working status.

MCU output high level or low level as soon as it's receiving from SID55, to control peripherals correctly and reliably, drivers of Q2,Q3,Q4 are employed, and each of these drivers corresponding to a SID55.

Once fuel volume information sent by FG02 is received, MCU would converted it to voltage and through LM2904 provide to peripherals.

MCU(U2) will output high level at 25th pin, while fuel volume slide to 1/4 of it's maximum value, Q6 switch on to drive low fuel volume alarm device.