

SECTION 2.1033(b) (2a). For Part 15 a statement describing how the device operates.

The 5883-2 contains a receiver and transmitter on a single board. In receive mode, signals from the antennas (ANT1 & ANT2) are diversity switched by U5 (MICRO) via (SWITCH) CR7 & CR8. The signal is then amplified by Q3 etc. (LNA) and fed into U1 (RECEIVER IF BLOCK) the LO: Q5, Y3, etc. (L0) is also fed into U1. The raw base band is then sent to U2 the (FILTER) and from there sent to U5 (MICRO) for processing. In transmit mode U5 the (MICRO) turns on Q15 (SWITCH) applying VCC to Q14 etc. the (OSCILLATOR) who's FDE is Y8 (SAW). This signal is then amplified by Q10 etc. the (PA) and ON/OFF MODULATED by Q16, Q12, & Q11 the (MODULATOR) matching circuit L13,C67, C65, C64 feed the transmit signal into CR7 & CR8 the (SWITCH) so that it can be sent in diversity via the antennas (ANT1 & ANT2). U5 the (MICRO) makes power level adjustments depending upon the message length. This is done by changing the current through the modulator, via Q13 etc.