

CIRCUIT DESCRIPTION

The 5800WAVE contains a single conversion receiver, made up of: diversity antennas switched by diodes CR7 & CR8, which feed the incoming signal to LNA, Q3, and associated circuitry. The mixing and IF functions are performed by U1, YL1 & YL2 provide IF bandpassing. The L.O. is Q5 and the FDE is crystal Y3. Baseband signal processing is performed by U2 & U4, and the message is processed by microprocessor U5. The Transmitter is made up of Oscillator Q14, Y6 is the FDE, PA Q10, and Q11, 12, and 13 amplitude modulate Q10, L13 & C67 are the PA tank circuit, L12, C64, C65 provide harmonic suppression and matching to the diversity antennas.