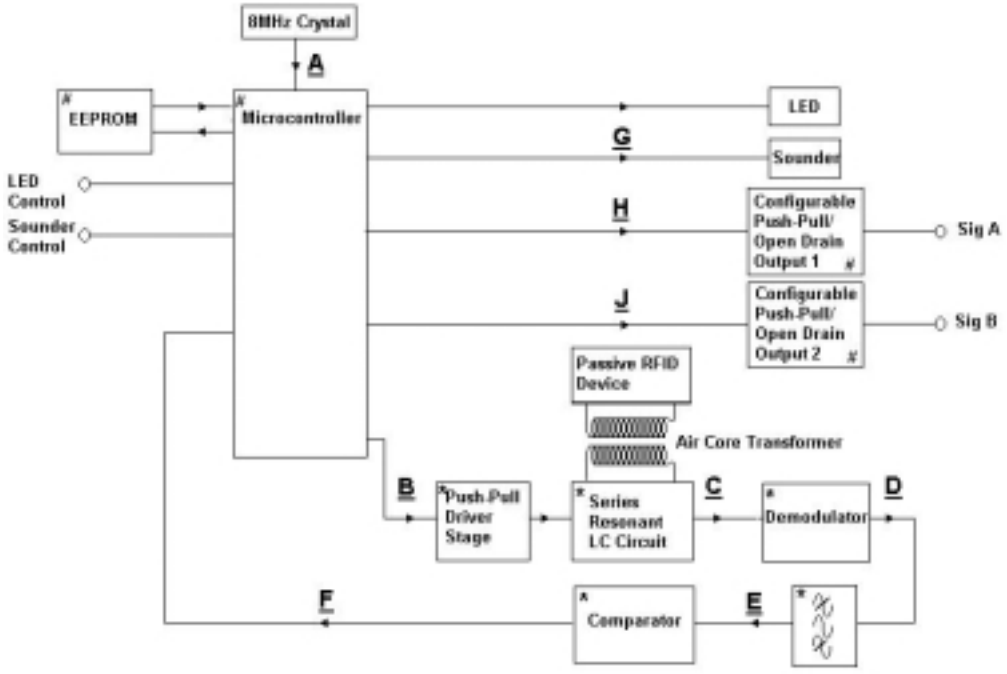
3. Block Diagram



A = 8.000 MHz local oscillator
B = 125 KHz output from microcontroller's PWM
C = 125 KHz signal with inductively coupled RFID code
D = Raw demodulated RFID signal
E = Filtered data at 3.9 KBaud
F = Digital data at 3.9 KBaud
G = Microcontroller generated 3 KHz square wave
H = Data output at 4800 Baud
J = Data output at 4800 Baud

Power and Ground
Common 0v to all modules
Input Vcc of 18V, linearly regulated to:

- * 10v for series LC driver and analogue,
- # 5v for microcontroller and logic

10v to push-pull driver stage is RC filtered to reduce conducted disturbance

Note: the PCB design supports the audio sounder shown above, but this is not fitted for current production units.