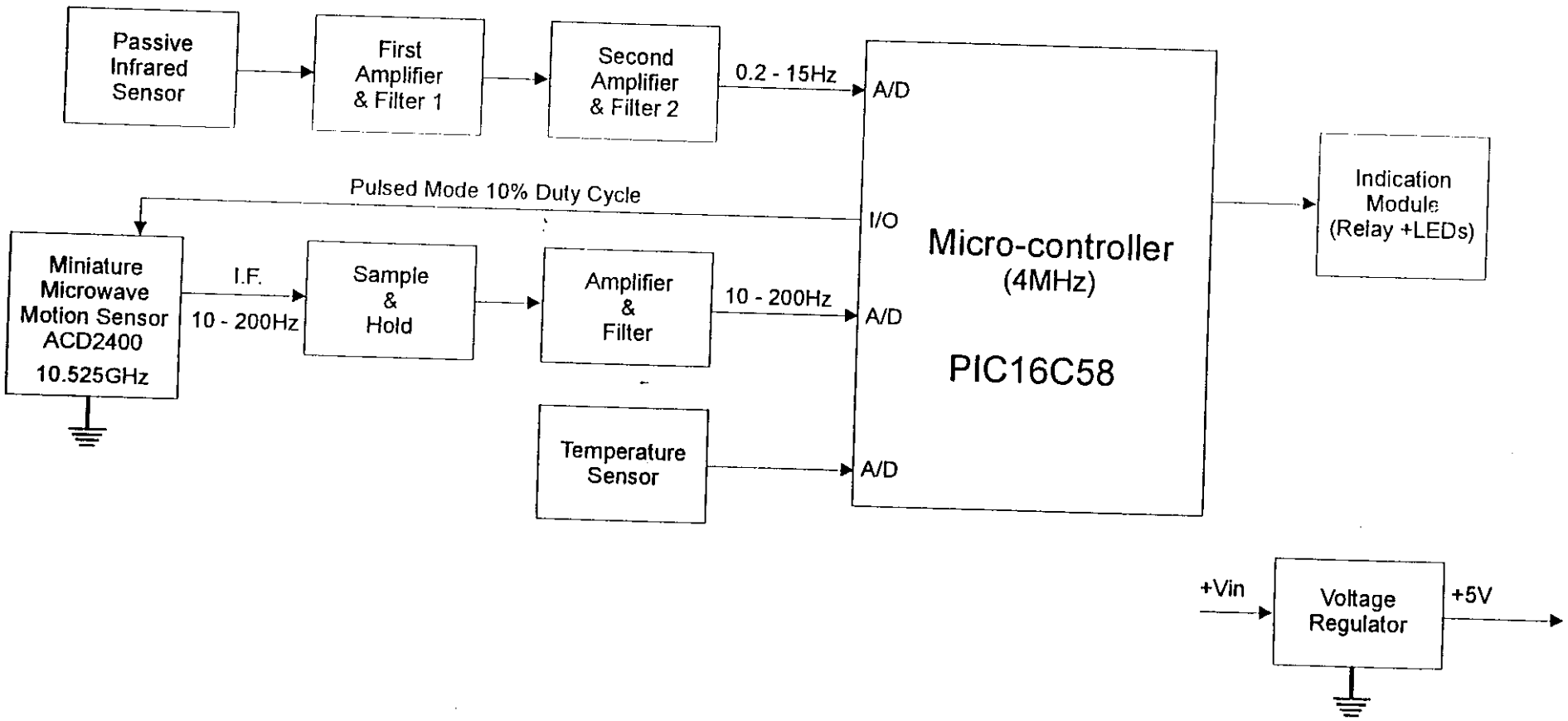
FCC requirements § 2.1033 (b)(4), (5)

BLOCK DIAGRAM OF ALARM SENSOR UNIT (DETECTOR).
CIRCUIT DESCRIPTION.
PCB DRAWINGS.

This page is followed by the block diagram of alarm sensor unit with a brief description of the device, description of the Doppler effect motion sensor, and ATLAS PCB drawings on 7 pages.

Motion Detector Block Diagram



The 0.2-15Hz signal from the passive infrared sensor, which is equal to human motion, passes through two amplifier and filter stages to the micro-controller that processes the frequency and gain of the signal. The 10 - 200Hz human motion signal from the microwave motion sensor that operates at 10% duty controlled by the micro-controller. The signal is sampled and stored during the sample and hold stage, amplified and filtered and processed by the micro-controller. When the micro-controller identifies and verifies two valid signals the indication module, i.e. LED and relay, is triggered. The LED acts as a visible indication of alarm verification whilst the relay sends a signal to the control panel.

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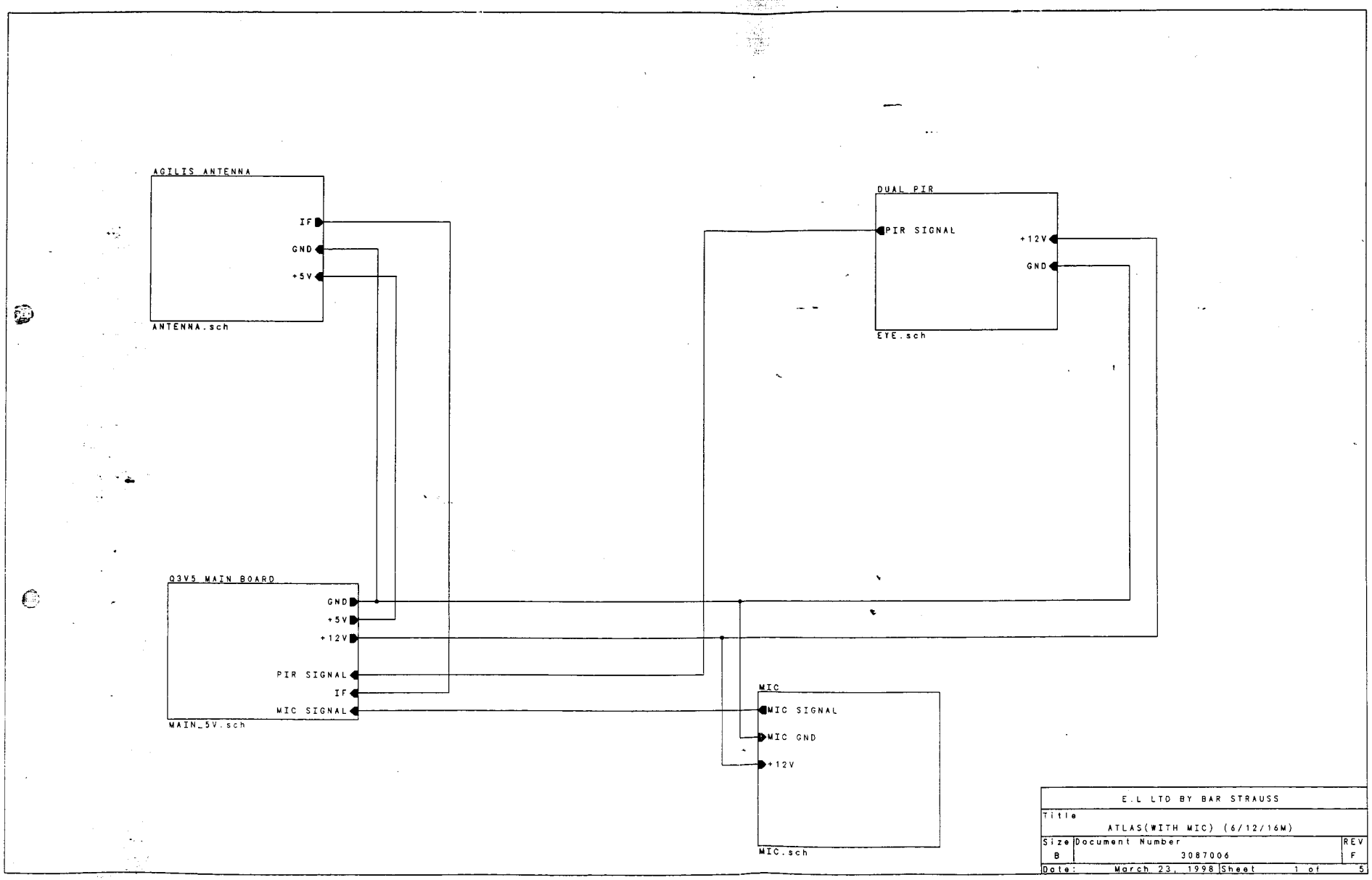

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Title: ATLAS(WITH MIC) (6/12/16M)		
Size: B	Document Number: 3087006	REV: F
Date: March 23, 1998	Sheet 1 of 5	