



ABSTRACT

A tone detector for detecting particular frequencies within an incoming signal, such as dial tone on call waiting tone received from exchange equipment. The detector comprises a bandpass filter or analog-to-digital converter, a microprocessor, a buffer and an analyser. The analyser periodically examines samples of the incoming signal stored in the buffer for the presence of the particular frequency by means of a modified Fourier Transform adapted to allow the use of a simple low-cost microprocessor.

Figure 1.