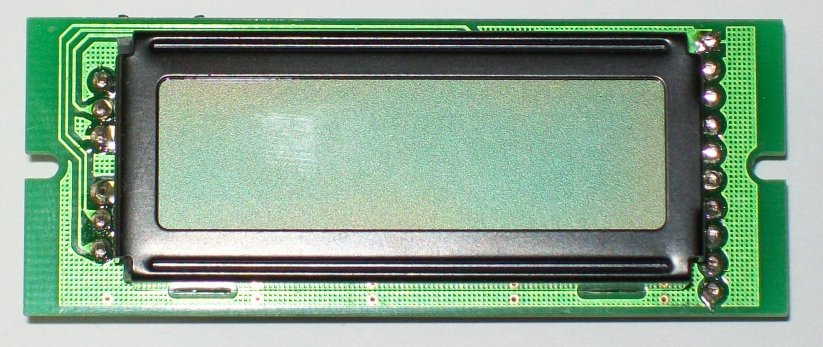
Locus Engineering Inc. E2061

Preliminary **Precision Frequency Counter**



FEATURES

- Inverse period fractional frequency measurement up to 4.9 KHz with a 24.576 MHz reference clock and 64 bit calculation precision
- 0.001 Hz resolution to 156 Hz
- 0.01 Hz resolution to 495 Hz
- 0.1 Hz resolution to 1,567 Hz
- 1 Hz resolution to 4,957 Hz
- Hysterisis switching between inverse period measurement mode and direct frequency measurement mode
- Up to 6.1 MHz with no prescaler
- Multiplexer and flush prescaler control for 1 Hz resolution above 6 MHz
- ESD protected input
- Programmable alarm thresholds
- <20ppm measurement error
- 115.2 Kbaud serial output every measurement
- 1.1” by 3.75” package
- 5V to 9V input power
- Backlit display

DESCRIPTION

The E2060-FRQ frequency counter is a compact unit using a combination of inverse period measurement or direct pulses per second measurement to indicate frequency accurate to 20ppm. Inverse period frequency measurement measures several integer periods over approximately one eighth of a second before calculating the frequency using a 64 bit division. Frequencies above 6 MHz can be accurately measured to 1 Hz resolution using a prescaler and multiplexer and flush controls. The E2060-FRQ switches between inverse period measurement and direct frequency measurement with a hysterisis band for measurement stability. Programmable alarm thresholds allow abnormal conditions to be detected.

APPLICATIONS

- instrumentation
- process controls