

MK 50010/1/2

FEATURES:

- Hours, Minutes – Date, Seconds
- 32,768 Hz quartz oscillator time base operation for both dynamic and field effect liquid crystals
- Build-in gated pulse-generator with sense-input for voltage conversion
- Microwatt power dissipation
- One-half to 1 sec delay in the updating commands for better human interaction
- Debounced update
- Single-pole grounding switches for display change and update
- Low - V_{DD} - sense that turns display off to avoid destruction of liquid crystal display
- Special synchronizing mode that enables user to synchronize the watch in a simple operation if error is less than 30 seconds
- Pinout matches most existing displays
- 64 Hz input to operate as decoder only

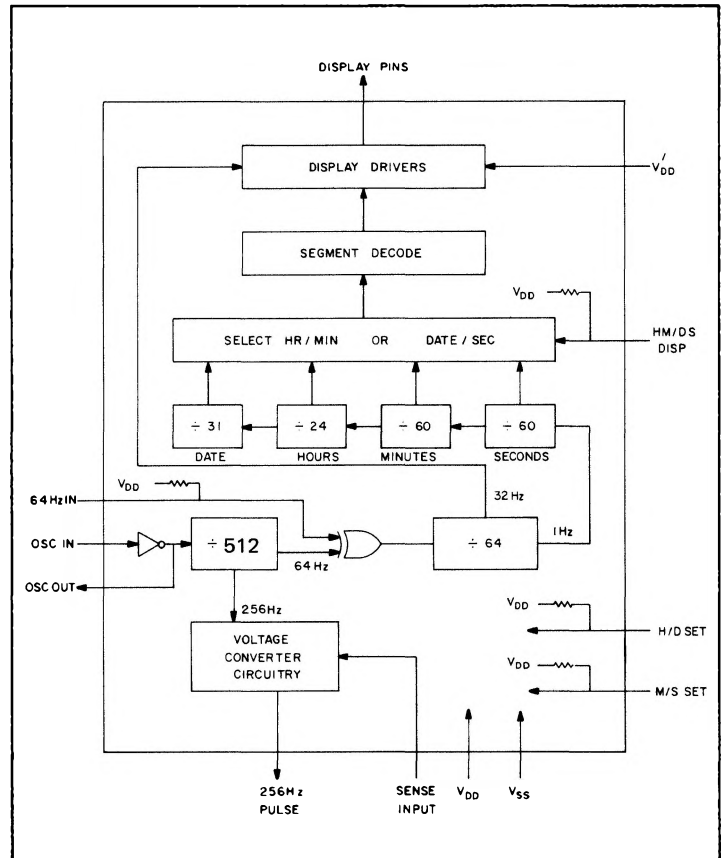
DESCRIPTION:

These three circuits are designed for a single chip CMOS watch/clock with liquid crystal display.

- MK 50010 – 4-digit, 12-hours with date and seconds
- MK 50011 – 4-digit, 24 hours with date and seconds
- MK 50012 – 3 1/2-digit, 12 hours with seconds

All versions display continuously HRS on the left two or one-and-half digits and MIN on the right two digits. By pressing the display button, the types 50010 and 50011 will change the display to DATE on the left and SEC on the right, while version 50012 is blanked on the left and displays SEC on the right. The digits may be separated by a colon that blinks with a 1 Hz rate if the watch is running.

LIQUID CRYSTAL WATCH CIRCUIT



Products to be Announced