

TECHNICAL DATA

AN EXCLUSIVE RADIO SHACK SERVICE TO THE EXPERIMENTER

PCIM-161R LCD Clock Module

DESCRIPTION:

The PCIM-161R LCD Clock Module is a compact, integrated, easy-to-use package. You only need add 1.5 VDC, three switches, and a buzzer to have a fully functioning alarm clock.

FEATURES:

- Six timekeeping functions
- 24-hour alarm
- Four-year calendar with alpha-numeric day/date
- 12 or 24-hour display option
- 0.25-inch (6.4mm) LCD character height
- Incandescent backlighting
- Low current drain

Jumper Connections (See Rear View Diagram)

For 12-hour format:

Connect jumper from function pad 1 to V_{SS}

For 24-hour format:

Connect jumper from function pad 2 to V_{DD}

For month/day format:

Connect jumper from function pad M to V_{SS}

For day/month format: (European-style)

Connect jumper from function pad D to V_{DD}

NOTE: In 12-hour time display format, "A" or "P" will indicate AM or PM.

Construction Notes

Use momentary-contact normally-open switches for SET, MOD, ALS, and LMP. (Radio Shack #275-1547 or 275-1571)

Buzzer is Radio Shack Piezo Buzzer Element. (#273-064 or 273-062)

Supply voltage is -1.3 to -1.6 VDC. (Radio Shack #23-575 or 23-023)

Setting the Clock

Press MOD (Hour digit will flash) Press and hold SET	Hold until the desired hour is displayed. (AM or PM in 12-hour format)
Press MOD (Minute digit will flash) Press and hold SET	Hold until the desired minute is displayed.
Press MOD Press SET	Starts the clock running at the preset time.

NOTE: Clock can be set exactly by using a radio or telephone time tone.

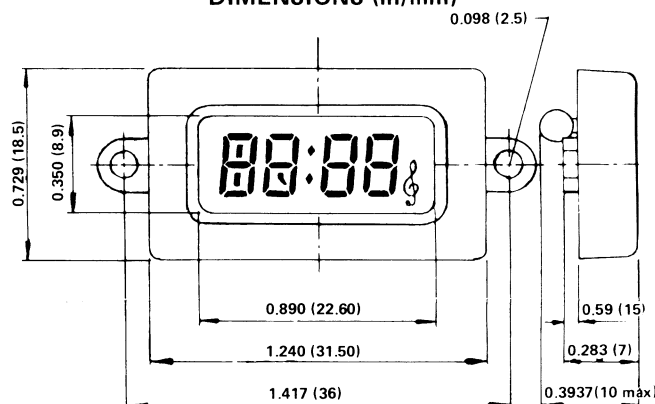
APPLICATIONS:

Compact design allows for easy mounting in any equipment such as pocket clock, radio, cassette, receivers, etc.

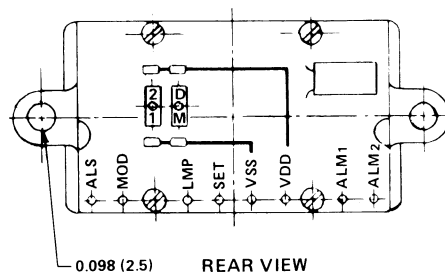
SPECIFICATIONS:

Operating Voltage	-1.3 to -1.6 VDC
Current drain	$6\mu A$ (Clock only) $150\mu A$ (Alarm operating) $12.5mA$ (Backlighting on)
Crystal Frequency	32.768 kHz
Accuracy	± 13 sec/month
Operating Temperature	41° – $113^{\circ}F$ (5° – $45^{\circ}C$)
Storage Temperature	14° – $140^{\circ}F$ (-10° – $60^{\circ}C$)

DIMENSIONS (in/mm)



FRONT VIEW



REAR VIEW

Setting the Calendar and Day-of-the-Week

Press and hold MOD (About three-seconds) Press and hold SET	Month and date will appear on display. Hold until the desired month is displayed.
Press MOD Press and hold SET	Hold until the desired date is displayed.
Press MOD Press and hold SET	Hold until the desired day-of-the-week is displayed.
Press MOD	Returns display to time.

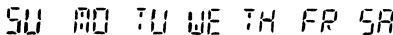
NOTE: The calendar automatically compensates for the number of days in a month (it must be reset during a leap year).

Setting the Alarm

Press ALS twice within three-seconds Press and hold SET	Hold until desired alarm hour appears on the display. (AM or PM in 12-hour format)
Press ALS Press and hold SET	Hold until desired alarm minute appears on the display.
Press ALS	Alarm time will be displayed momentarily. Display will then return to actual time. "⌚" will illuminate to indicate the alarm is set.

OPERATIONAL NOTES

- During normal operation, time is displayed.
- Momentarily pressing the **SET** button will cause the date to be displayed for one-second, followed by the day-of-the-week for one-second. The display then returns to time.
- Seconds can be displayed by pressing **SET** twice within two-seconds. To return the display to time, press **SET** once again.
- The day-of-the-week display is as follows:


- Pressing **LMP** will illuminate the display.

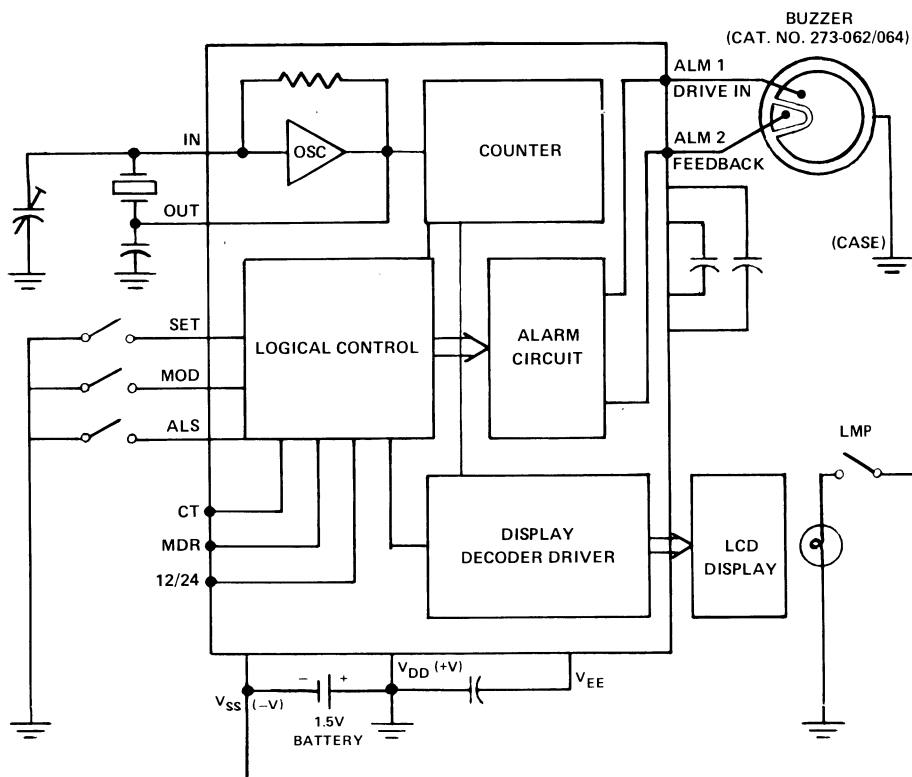
ALARM OPERATION

The alarm sounds for 15-seconds at the preset time and resets itself automatically to go off again in 24-hours.

NOTE: The alarm can be cut off before the 15-second interval by pressing **SET** or **ALS**. If this is done, the alarm time must be reset. (Refer to **Setting the Alarm**.)

"⌚" indicates the alarm is set.

To set the alarm, press **ALS** momentarily. ("⌚" will illuminate). To turn off the alarm, press and hold **ALS** until "⌚" goes out.



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