

Frequency Setting Board FIX-PCL850

1. Outline

The FIX-PCL850 facilitates frequency setting for the DDS-based programmable oscillator "PCL850." Not only can a desired frequency be set by using the nine BCD switches on the board, but also remote channel writing and reading can be performed. Also, the RS-232C interface enables setting in connection with a PC serial port.

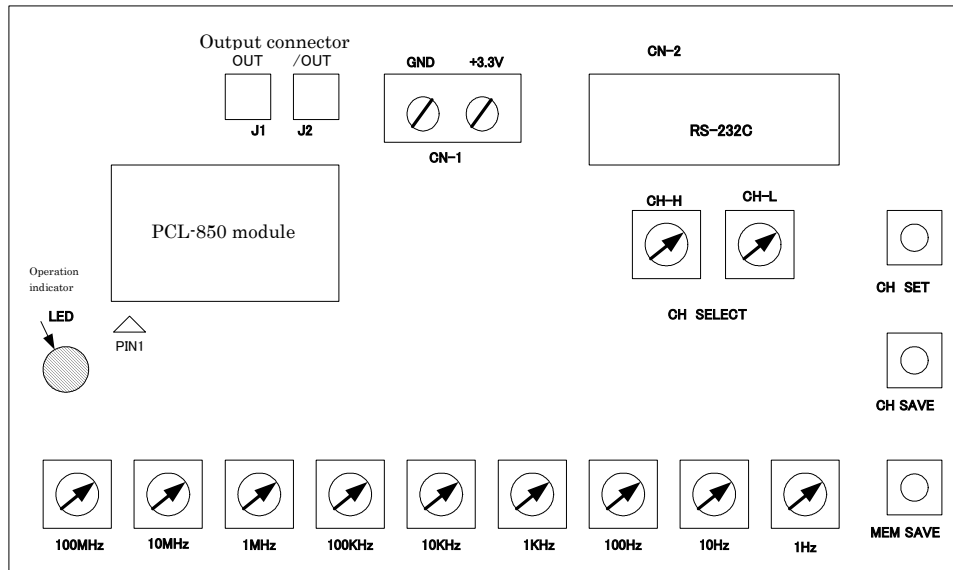
2. Specifications

Power supply voltage	3.3V±5%
Consumption current	300mA or less (with a PCL850 mounted)
Output connector	50Ω SMB type For the adapted connector, an SMB (C05) type plug or Hirose UM plug can be used.
Serial specification	D-SUB 9-pin female Use a straight cable for connection with a PC serial port. The level is RS-232C. For communication conditions, see the PCL850 specifications.

RS-232C connector pin assignments

Pin No.	Signal name	Signal direction PCL-850<-> terminal	Remarks
1	CD	—>	connected to DTR internally
6	DSR	—>	connected to DTR internally
2	RD	<—	
7	RTS	<—	not used
3	TD	<—	
8	CTS	—>	connected to DTR internally
4	DTR	<—	“ CD, CTS, DSR “
9	RI	—>	not used
5	GND	<—>	

3. Board layout



4. How to use

(1) Frequency setting with BCD switches

Set the desired frequency with the nine BCD switches on the PCB.

By pushing the MEM SAVE switch, the current frequency can be saved in the PCL850. For using the PCL850 alone, the frequency to be output at power-on can be saved. Use the CH SAVE switch to save the frequency in the memory (64CH) of the PCL850. Select a memory CH in a range of 00hex to 3Fhex (0 - 63 in decimal notation) with the hexadecimal 2-digit BCD switches (CH SELECT). Use the CH SET switch to set a frequency by calling a frequency saved in the PCL850.

(2) Setting with serial data

By the RS-232C interface incorporated in this board, settings can be made with serial data because the PC communication port and CN2 are connected by a straight cable.

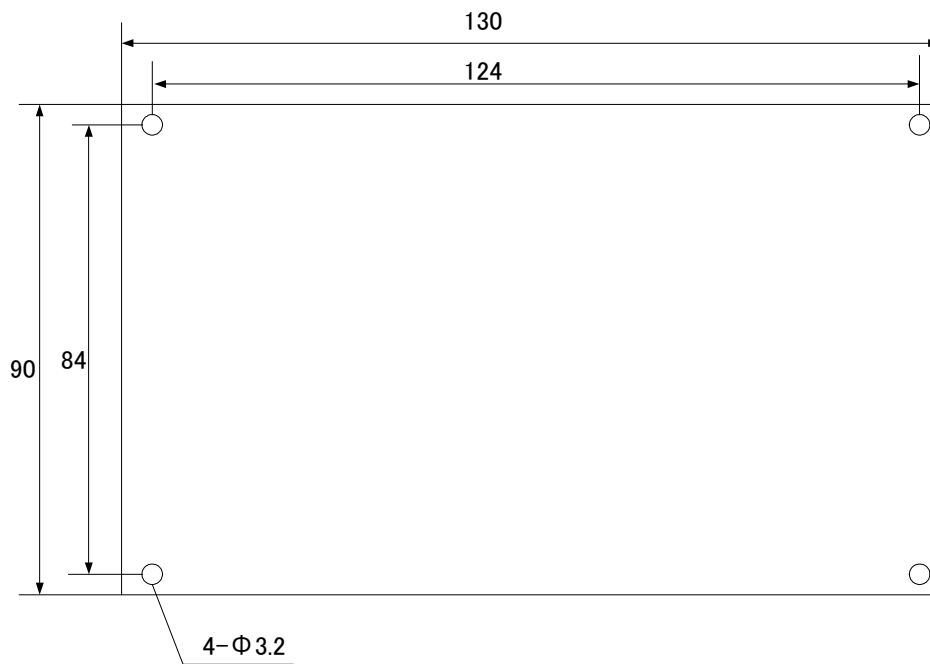
For how to set the frequency through serial communication, see the PCL850 specifications.

(3) LED indication

The LED lights during normal operation.

The LED flashes momentarily when the frequency is set with the BCD switches and when the MEM SAVE/CH SAVE switch is pushed. The LED flashes continuously when the PCL850 is not inserted in the socket properly or communication is not performed normally.

5. Outer dimensions



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