

khs

instruments

analog::blocks

***±12 V to ±5 V Voltage Regulator
Module and Board***

User Manual

Rev. 1.0

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1) General Description

The analog::blocks ± 12 V to ± 5 V Linear Regulator Module uses 78L05 and 79L05 regulators to generate the ± 5 V supply rails from the existing ± 12 V supply, eliminating the need for a separate ± 5 V power source.

When fitted with stacking headers, another Power Module can be mounted on top of the regulator module without occupying an additional Base Board position.

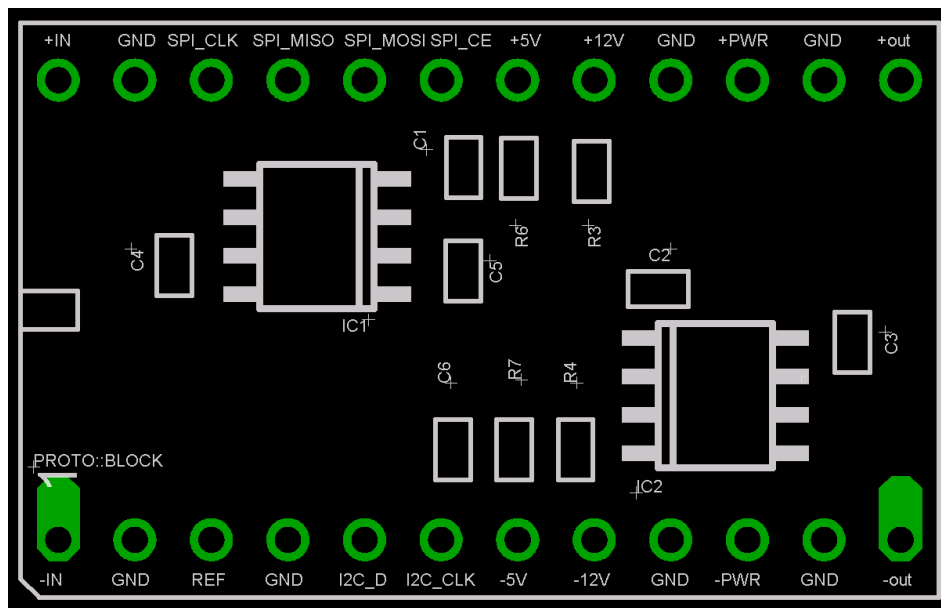


Figure 1. Common Power Module Board layout

2) Common Circuit

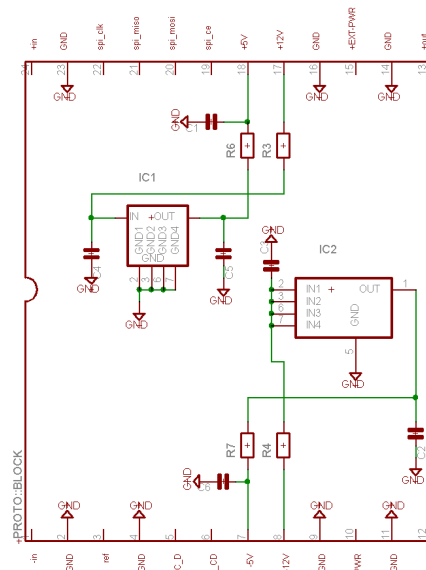


Figure 2. Power Module circuit.

3) Configuration Notes

No configuration is required.

4) Prototype Board

Ordering Information: ABL-PPR-11-I02

5) Populated Function Modules

The populated Function Module uses the same circuit as the Prototype Board.

5.1) ± 12 V to ± 5 V voltage regulator

Configuration:	± 12 V to ± 5 V linear regulator.
Input:	± 12 V power rails.
Output:	± 5 V power rails.
Maximum Output Current:	100 mA per output
Ordering Information:	ABL-MPR-11-I02-05

6) Module Interface and Pin Assignment

The module interface consists of 24 contacts. The four corner contacts are the principal analog signal connections. The signal names IN and OUT describe their usual purpose; an individual module may use these analog contacts in the opposite direction.

Pinout

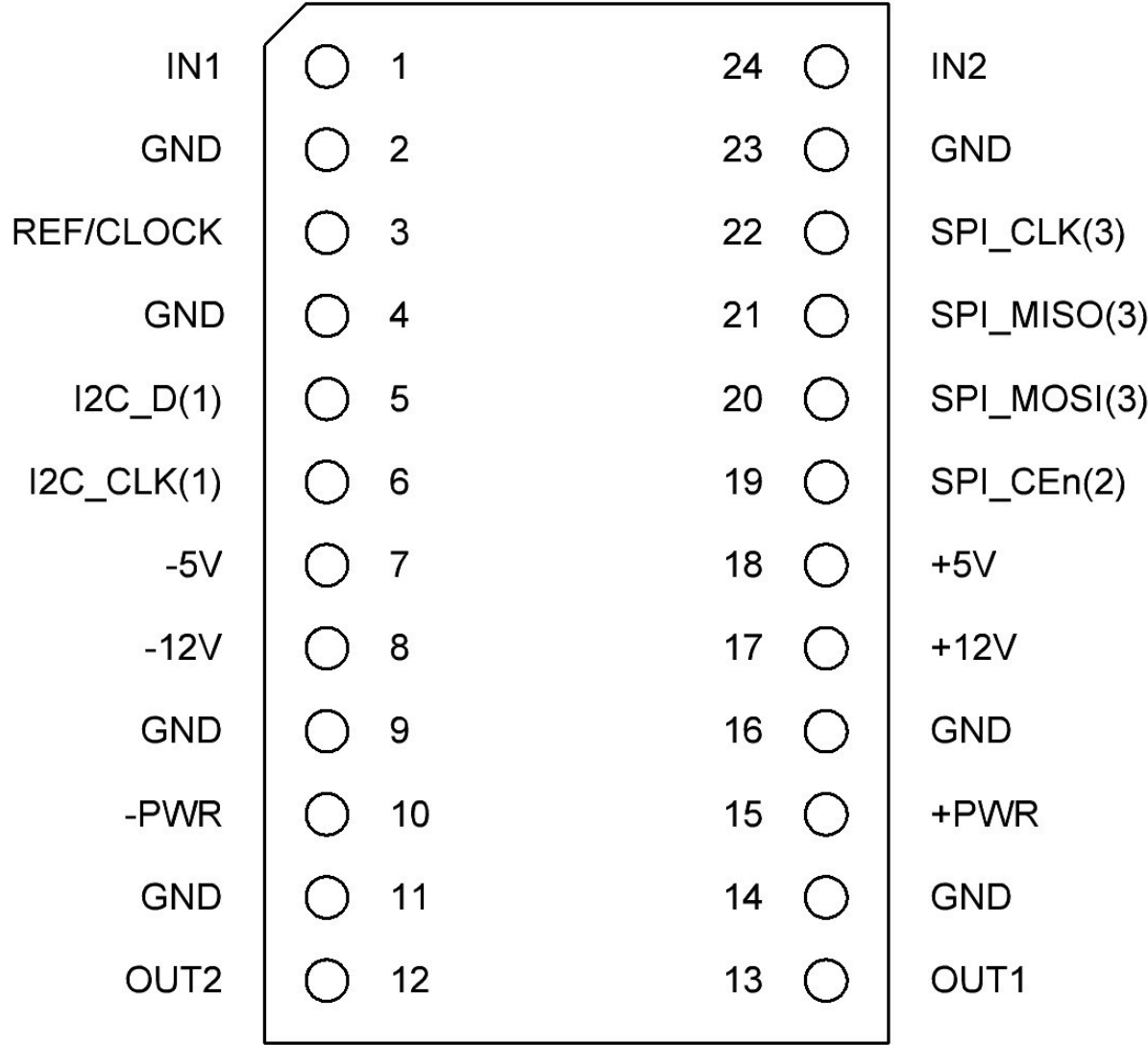


Figure 3: 24-pin analog::blocks module interface, top view.

History:

Revision	date yy/mm/dd	Changes
1.0	26/09/21	Initial.