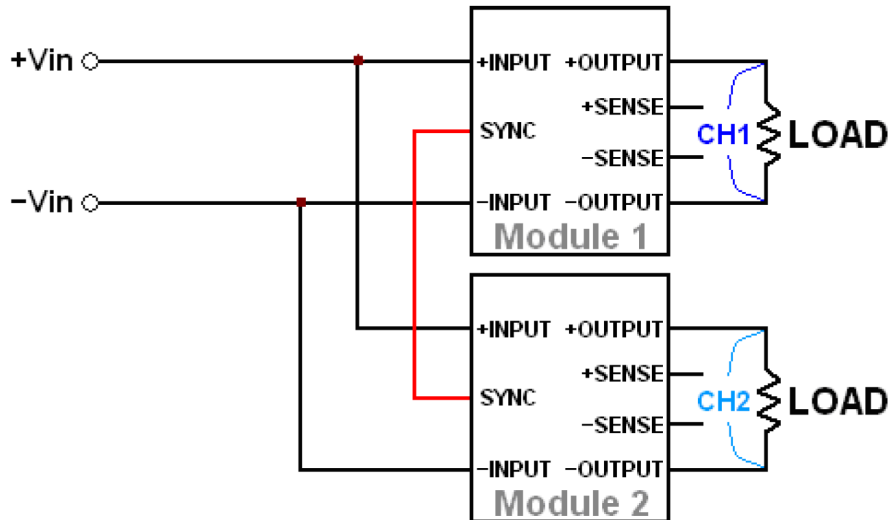


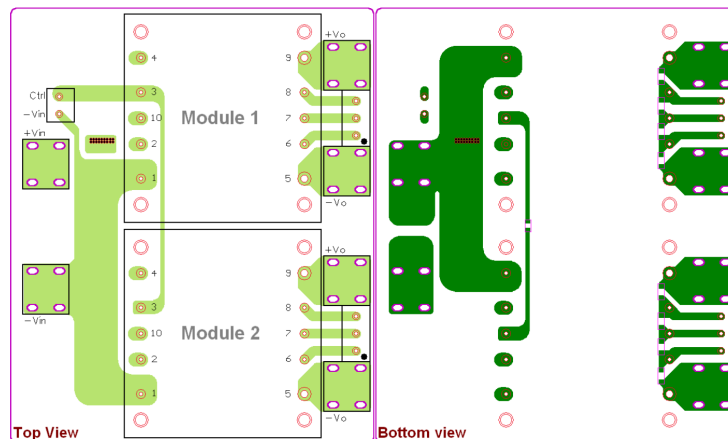
## Synchronous Pin

The switching frequencies of multiple converters of the same series can be synchronized together simply by connecting the modules SYNC pins together. This function is available only for On Demand models with Sync Pin.

### Synchronous Circuit



### Recommended Layout

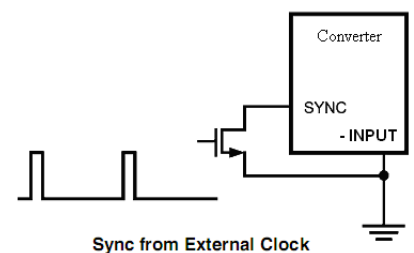


- Note
- Care should be taken to ensure the ground potential differences between modules are minimized.
  - In this configuration all of the modules will be synchronized to the highest switching frequency.
  - Up to three modules can be synchronized using this technique.

### Using an external clock

The internal oscillator can be synchronized to an external clock with an external pull-down resistor. An open drain output is the recommended interface between the external clock to the SYNC pin.

- The clock pulse width must be greater than 15 ns.
- The external clock frequency must be higher than the converter frequency (max. frequency < 280 kHz).
- Sync threshold (falling) voltage is 1.4 V typical.



Sync from External Clock