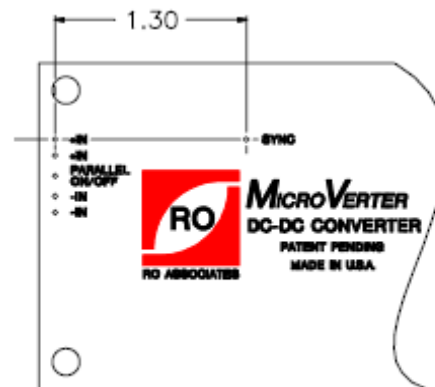


Synchronization of MicroVerter® Modules

General Description

The sync option allows operation of the power supply at a customer chosen frequency, within the limits of the table below. When no sync signal is provided, the module will operate at a switching frequency of 300KHz. The sync pulse generating circuit can have either high or low impedance from sync to -in when inoperative without disturbing the “free running” frequency of the module.

Location of the Sync Pin:



TOP VIEW - PINS FAR SIDE

Implementation



To synchronize the module to an external clock, the sync pulse train should have the following characteristics:

	RECOMMENDED	MAXIMUM	MINIMUM
FREQUENCY	370 KHz	400KHz	330KHz
WIDTH	50ns	200ns	10ns
AMPLITUDE (INTO 24 OHMS)	1V	2.5V	0.5V

To synchronize the module to an external clock, the sync pulse train should have the following characteristics:

The minimum pulse height required is actually a function of the pulse frequency, with larger pulses required for higher frequency. A pulse height of 1V is generally sufficient for frequencies up to about 400KHz. The internal impedance of the module from sync to -in is 24 ohms.