

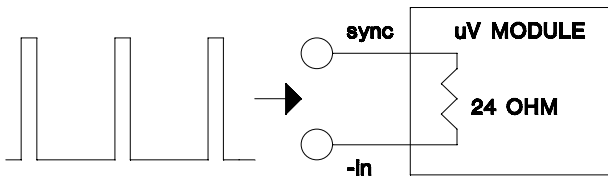


Synchronization Of *MICROVERTER*[®] Modules

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 a high or low impedance from sync to - in when inoperative without disturbing the “free running” frequency of the module.

Implementation

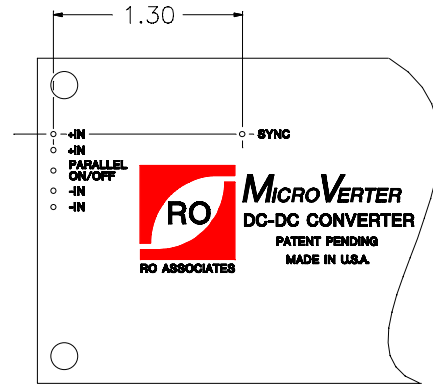


To synchronize the module to an external clock, the sync pulse train should have the following characteristics:

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

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.

Location of the Sync Pin:



TOP VIEW - PINS FAR SIDE

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