

## GENERAL DESCRIPTION

The 99237 is a driver featuring high speed and wide negative voltage range suited for driving high power MASW series SP2T monolithic switches.

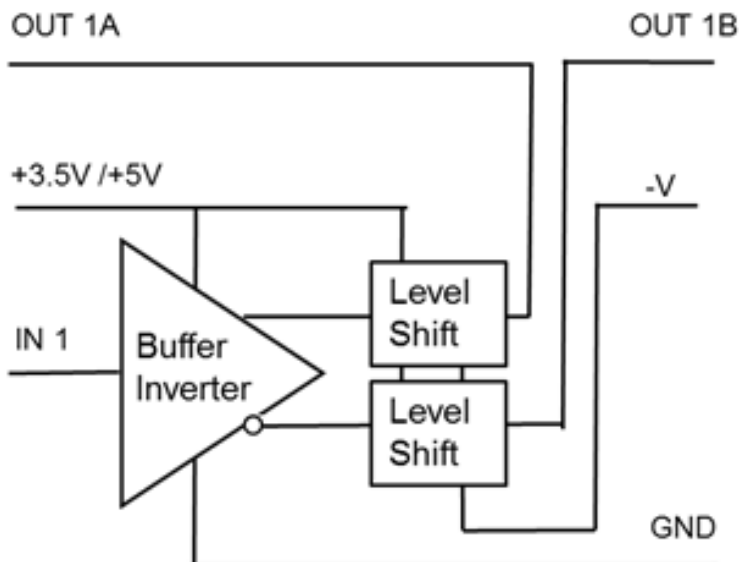
The driver is compatible with 3.3/5.0 V CMOS logic and has a single logic input and 2 outputs to supply each bias line with  $-V$  up to  $-100V$  and up to  $\pm 40$  mA current.

On-board user-modifiable output current-setting resistors and spiking caps are integrated into the unit.

## FEATURES

- Ultra high speed  $<35nS$
- Compatible with CMOS FPGA outputs
- Drop-in ready module with corner 2-56 mounting holes
- Compatible with MASW-011036 Ka-Band SPDT PIN Switch

## FUNCTION BLOCK DIAGRAM

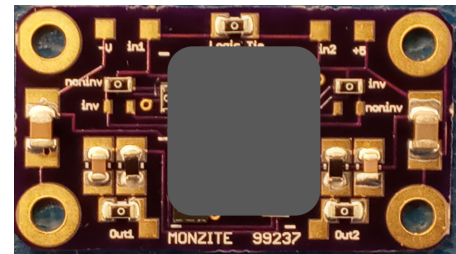


## MECHANICAL

The 99237 consists of silicon micro components soldered to a laminate substrate and protected with a dam and fill process. This forms a  $7 \times 7$  mm protected area within a nominal 1" by .55" pcb, with a fully continuous grounded gold-plated backside, designed for integration into an integrated microwave assembly.

ECCN Code EAR99

99237 is RoHS 3 (EU 2015/863) compliant.



## PIN CONNECTIONS

Pins 2, 9, 11 (Vneg) internally connected

Pins 5, 8 (Vpos) internally connected

PIN 11 Backside paddle is Vneg

Recommend bypassing Vpos and Vneg with .47 uF

- 1  $-V$  ( $-5V$  to  $-40V$ )
- 2 Input
- 3 NC
- 4  $+5V$  /  $+3.3V$
- 5 Out 1B Inverting
- 6 Out 1A Noninverting
- 7 Ground