

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS SINCE 1975

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TEL: 1-800-265-6681 FAX: 1-800-561-1970 U.S.A. & CANADA BOX 5120 STN. F OTTAWA, ONTARIO CANADA K2C 3H4 TEL: (613) 226-5772 FAX: (613) 226-2802

Model AV-147-TRA1

General Specifications

Output waveform: See enclosed sketch.

Output amplitude: -10 Volts or +10 Volts to 50 Ohms.

Pulse width: 50 ns to DC. Output pulse width

equals input trigger pulse width.

Input trigger: Differential ECL.

Max. duty cycle: 100%.

Rise, fall time: ≤ 2 ns (not a function of input

rise, fall time).

Overshoot: \leq 5%.

Settling time: 25 ns (to 1%).

Source impedance: Approx. 15 Ohms.

Chassis size: 1.0" x 2.0" x 5.0".

Chassis material: Extruded aluminum, sand-blast

finish.

Prime power: +15 VDC, 300 mA (max).

-15 VDC, 300 mA (max).

The unit does not contain any DC-DC switching convertors or

regulators.

Cooling: Unit should be fan cooled (or

conductor cooled).

Connectors: All connectors are on a 1" \times 2"

face (see enclosed sketch).

ECL input connector: 3 0.025" pins on 0.1" centers to

mate to 3M monosignal 3-position

socket connector TLA (see

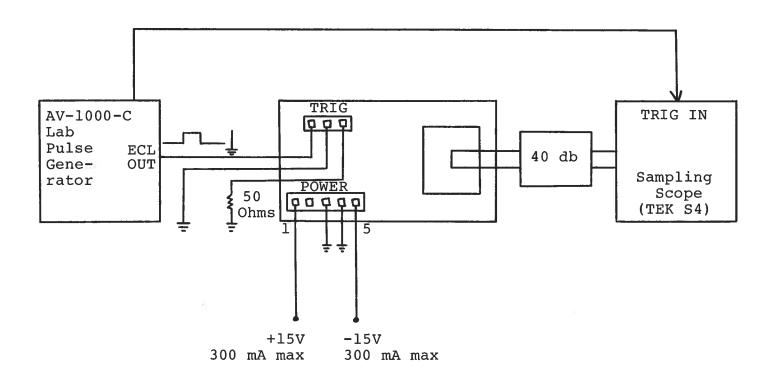
enclosed sketch).

Output connector: SMA.

Power connectors: 5 0.025" pins on 0.1" centers

(see enclosed sketch).

TEST ARRANGEMENT



Notes:

a) POWER CONNECTION:

- i) Apply +15 Volts (± 0.20 Volts) to PIN 1
- ii) Apply -15 Volts (± 0.20 Volts) to PIN 5
- iii) PINS 3 and 4 are internally grounded
 - iv) There is no connection to PIN 2

b) TRIG:

- i) The unit was tested with the input signal connections shown above.
- ii) PINS 1 and 3 are terminated internally by 130 Ohms to -5V and 82 Ohms to ground. PIN 2 is connected to ground.

c) HEATSINKING:

Cooling heat conductor may be achieved by connection to the four 2-56 TAPPED holes on the bottom of the chassis or to the six 2-56 TAPPED holes on the top of the chassis. For the latter case, the top cover may be removed by removing the six counter sink 2-56 screws and attaching a heatsink plate in place of the cover plate. The cover plate shipped with the unit may be used as a template.

d) For additional assistance:

Tel: (613) 226-5772 Fax: (613) 226-2802

