



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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INSTRUCTIONS

MODEL AVX-TD-GIB3 BIAS INSERTION UNIT

S.N.

WARRANTY

Avtech Electrosystems Ltd. warrants products of its manufacture to be free from defects in material and workmanship under conditions of normal use. If, within one year after delivery to the original owner, and after prepaid return by the original owner, this Avtech product is found to be defective, Avtech shall at its option repair or replace said defective item. This warranty does not apply to units which have been disassembled, modified or subjected to conditions exceeding the applicable specifications or ratings. This warranty is the extent of the obligation assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

TECHNICAL SUPPORT

Phone: 613-226-5772 or 1-800-265-6681

Fax: 613-226-2802 or 1-800-561-1970

E-mail: info@avtechpulse.com

World Wide Web: <http://www.avtechpulse.com>

- 1) The -GIB3 suffix denotes a DC current rating of 2A (rather than the standard 250 mA).
- 2) For operation with DC currents of 2 Amp the AVX-TD-GIB3 must be securely attached to a heat sink capable of dissipating 32 Watts. A heat sink is not necessary if the DC current is less than 1A.
- 3) The AVX-TD-GIB3 unit has a parasitic DC resistance of about 8 Ohms in the DC to out path and so that DC output voltage is $8 \times I_{DC}$ Volts less than the DC voltage applied to the DC port.
- 4) A test pulse generator and the AVX-TD-GIB3 should be configured as shown below. The applied pulse may be positive or negative and the DC may also be either polarity.
- 5) CAUTION:
 - a) The AVX-TD-GIB3 must be securely attached to a heat sink if the DC current exceeds 1A.
 - b) The AVX-TD-GIB3 will be damaged if the DC current exceeds 2A.
 - c) The output pulse droop will exceed 10% for pulse widths greater than 50 us (for an assumed load resistance of 20 Ohms). The droop will be less for higher load resistances.
- 6) For additional assistance:

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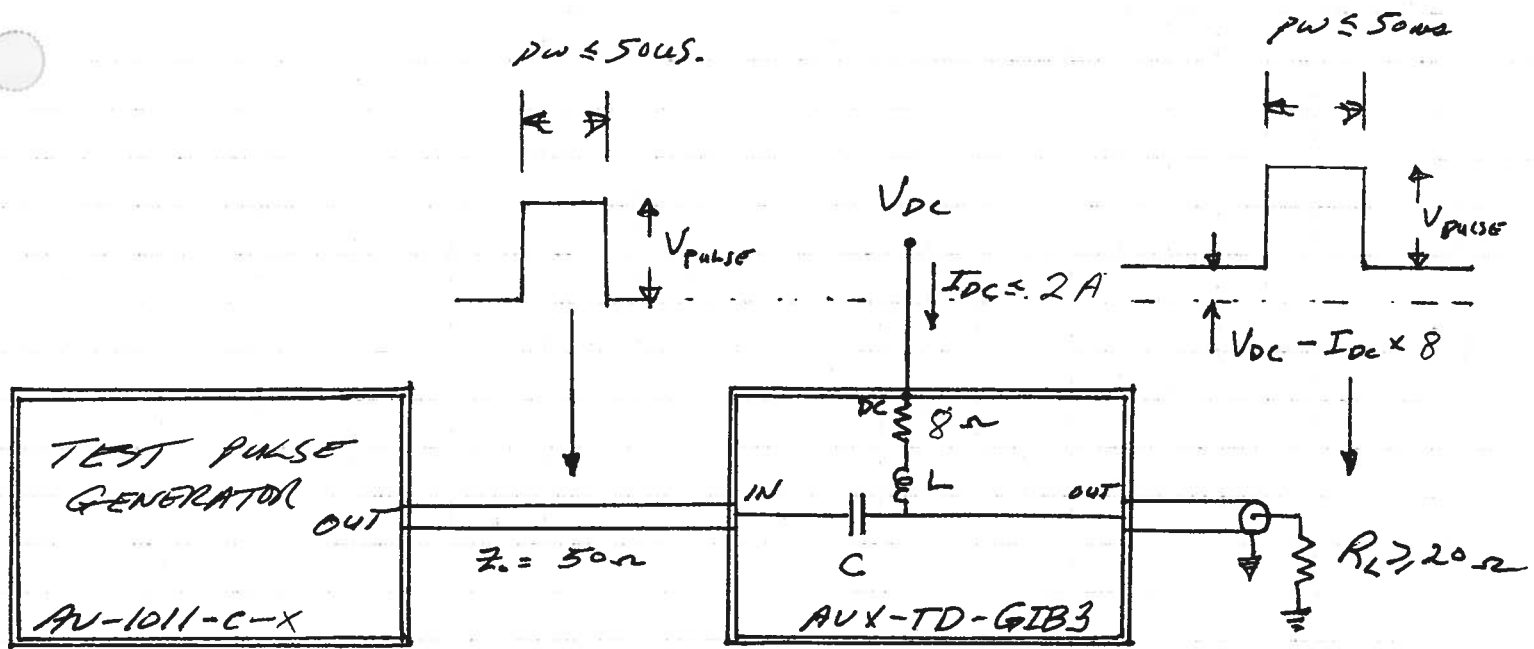


Fig 1 MODEL AV-1011-C-X
 AND MODEL AUX-TD-GIB3
 CONNECTION.

July 13/04