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NANOSECOND WAVEFORM ELECTRONICS

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INSTRUCTIONS

MODEL AV-135 AMPLIFIER

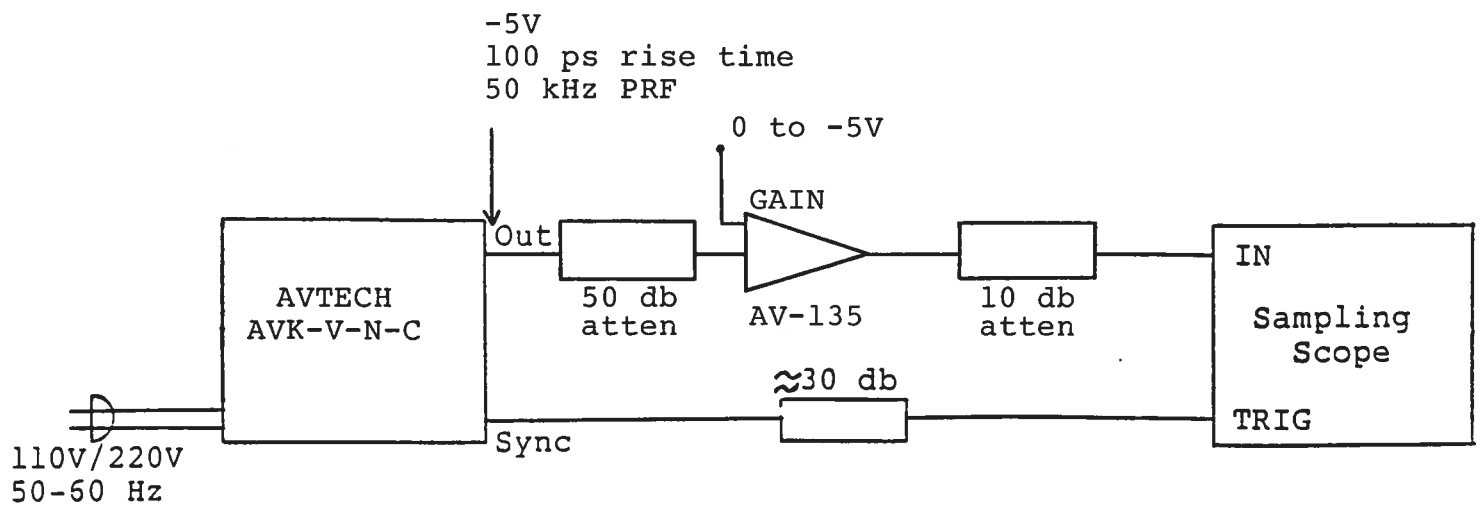
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WARRANTY

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 or liability assumed by Avtech with respect to this product and no other warranty or guarantee is either expressed or implied.

Fig. 1

AMPLIFIER TEST ARRANGEMENT



Model AV-135

General Instructions

The Model AV-135 amplifier is designed to amplify bipolar nanosecond rise time baseband pulses in the pulse width range of about 0.5 ns to 2.0 us and CW signals in the frequency range of 0.1 to 2500 MHz. The basic specifications for the unit are as follows:

Gain:	> -10 to +20 db (controlled by 0 to -5 Volts applied to GAIN TERMINAL)
Peak output voltage:	±1.0 volt
Rise time:	< 140 ps
Impedance level:	50 Ohms nominal
Bandwidth:	DC to 2500 MHz
Input VSWR:	< 2.0:1
Output VSWR:	< 2.0:1
Max. noise figure:	10.0 db
Prime power:	+15 Volts, 250 mA
Connectors:	SMA
Size:	1.4 x 1.1 x 2.3 inches

Notes:

- 1) The module should be bolted to a heat sink.
- 2) Units having a SN higher than 6500 include a GAIN control terminal adjacent to the IN SMA connector. Varying an applied DC voltage from 0 Volts (or open circuit) to -5 Volts will vary the gain of the AV-135 from +20 db to -10 db.
- 3) Units having a SN higher than 6500 operate as inverting amplifiers.
- 4) For additional assistance:

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