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ENGINEERING . MANUFACTURING

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INSTRUCTIONS

MODEL AVH-PS IMPULSE GENERATOR

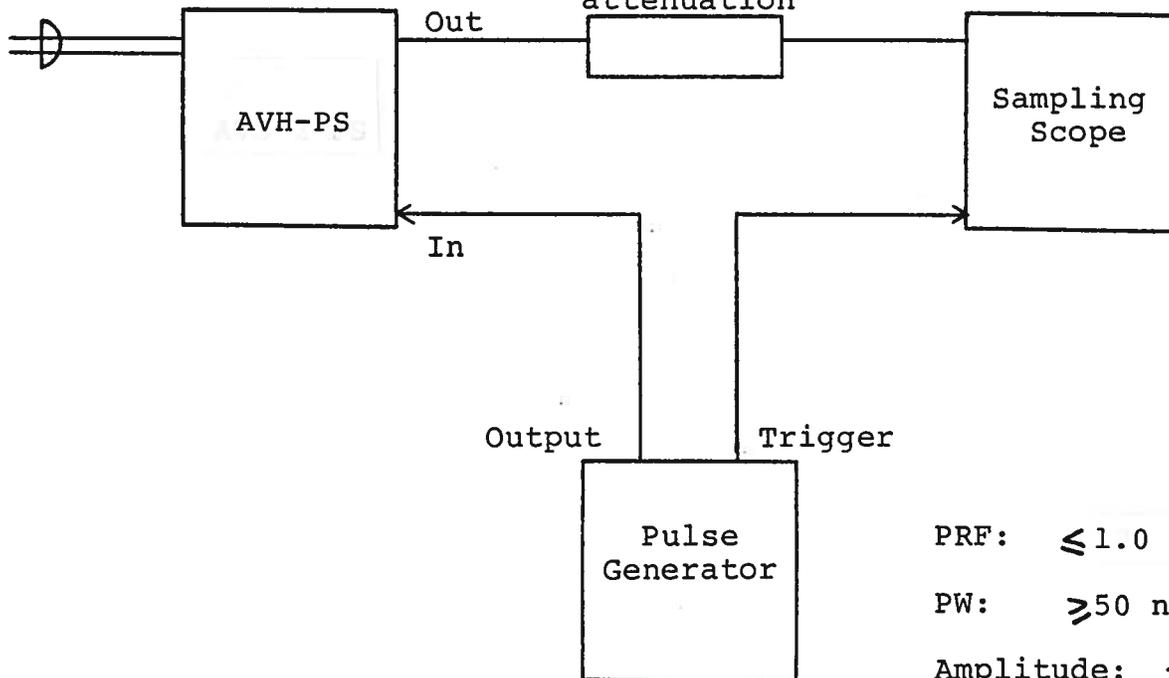
S.N. :

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

IMPULSE GENERATOR TEST ARRANGEMENT

110/220V
50-60 Hz



PRF: ≤ 1.0 MHz

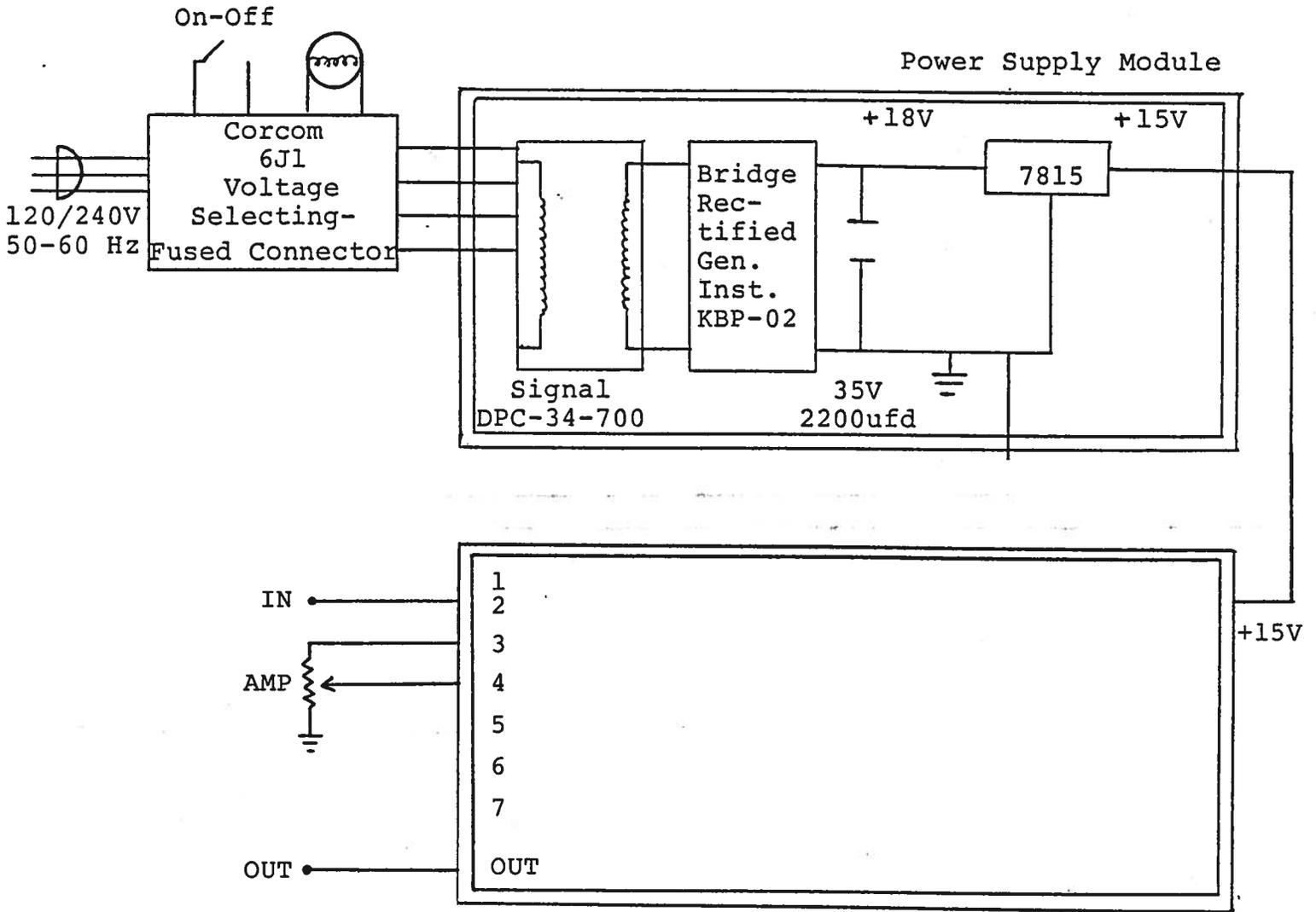
PW: ≥ 50 nsec

Amplitude: +3 to +5 volts
(TTL Levels)

Notes:

- 1) The bandwidth capability of components and instruments used to display the impulse generator output signal (attenuators, cables, connectors, etc.) should exceed 5.0 gigahertz.
- 2) The use of 40 db attenuation will insure a peak input signal to the sampling scope of less than one volt.
- 3) In general, the pulse generator trigger delay control should be set in the 100 nsec. range. Other settings should be as shown in the above diagram. The impulse generator output is delayed with respect to the trigger input signal by about 70 nsec. (typically).
- 4) The output amplitude is controlled by the one turn AMP control.
- 5) The impulse generator can withstand an infinite VSWR on the output port.
- 6) The monitor output (-M) provides a 20 db attenuated coincident replica of the main output to 50 ohms. (option).

SYSTEM BLOCK DIAGRAM AND REPAIR PROCEDURE



AVH-PG Module

SYSTEM DESCRIPTION AND REPAIR PROCEDURE

The AVH-PS consists of a pulse generator module (AVH-PG) and a power supply board which supplies +15 volts (600 mA max) to the pulse generator module. In the event that the AVH-PS unit malfunctions, remove the instrument cover by removing the four Phillips screws on the back panel. The top cover may then be slid off. Measure the voltage at the +15 V pin of the PG module. If this voltage is substantially less than +15 volts, unsolder the line connecting the PS and PG modules and connect 50 ohm 10 W load to the PS output. The voltage across this load should be about 15 V DC. If this voltage is substantially less than 15 volts the PS module is defective and should be repaired or replaced. If the voltage across the resistor is near 15 volts, then the PG module should be replaced or repaired. The sealed PG module must be returned to Avtech for repair (or replacement).

Schroff

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SYSTEM DESCRIPTION AND REPAIR PROCEDURE

- M

The AVH-P2 consists of a pulse generator module (AVH-P2) and a power supply board which supplies +15 volts (500 mA max) to the pulse generator module. In the event that the AVH-P2 unit malfunctions, remove the instrument cover by removing the four Phillips screws on the back panel. The top cover may then be slid off. Measure the voltage at the +15 V pin of the P2 module. If this voltage is substantially less than +15 volts, unsolder the line connecting the P2 and P3 modules and connect 20 ohm 10 W load to the P2 output. The voltage across this load should be about 15 V DC. If this voltage is substantially less than 15 volts the P2 module is defective and should be repaired or replaced. If the voltage across the resistor is near 15 volts, then the P3 module should be replaced or repaired. The sealed P2 module must be returned to Avtech for repair (or replacement).