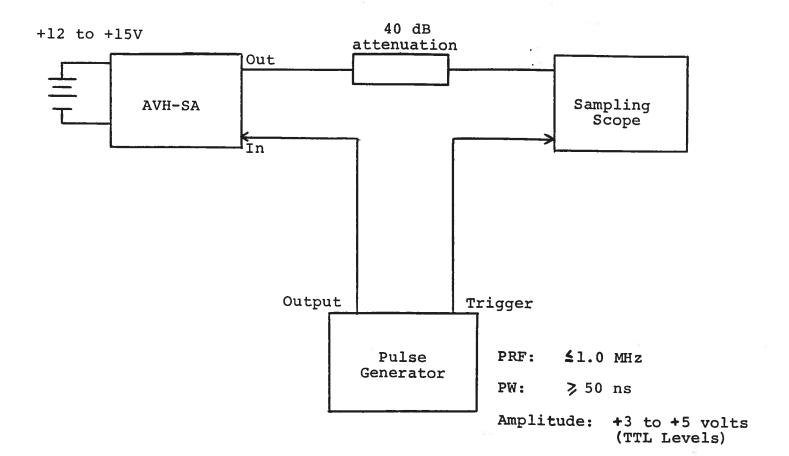INSTRUCTIONS

MODEL AVH-SA-LT1 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 dissembled, 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

+12 to +15V

40 dB
attenuation

AVH-SA

Out

In

Sampling
Scope

Output

Trigger

Pulse
Generator

PRF: ≤ 1.0 MHz

PW: ≥ 50 ns

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 ten gigahertz.

2) The DC prime power supply may be in the range of +12 to +15V.

3) The use of 40 dB attenuation will insure a peak input signal to the sampling scope of less than one Volt.

4) In general, the pulse generator trigger delay control should be set in the 100 ns 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 35 ns. (typically).

5) The impulse generator can withstand an infinite VSWR on the output port.

6) The output amplitude is controlled by the front panel one turn AMP control. Note that the AMP and PW controls interact (reducing the amplitude increases the pulse width!).

7) The output pulse width is controlled by the PW and TR controls. The PW control defines the falling edge and the TR control defines the rising edge.

April 5/95

Disk: AVH

Name: AVHSALT1.INS