AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING · MANUFACTURING

INSTRUCTIONS

Model AVI-US1 Pulse 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
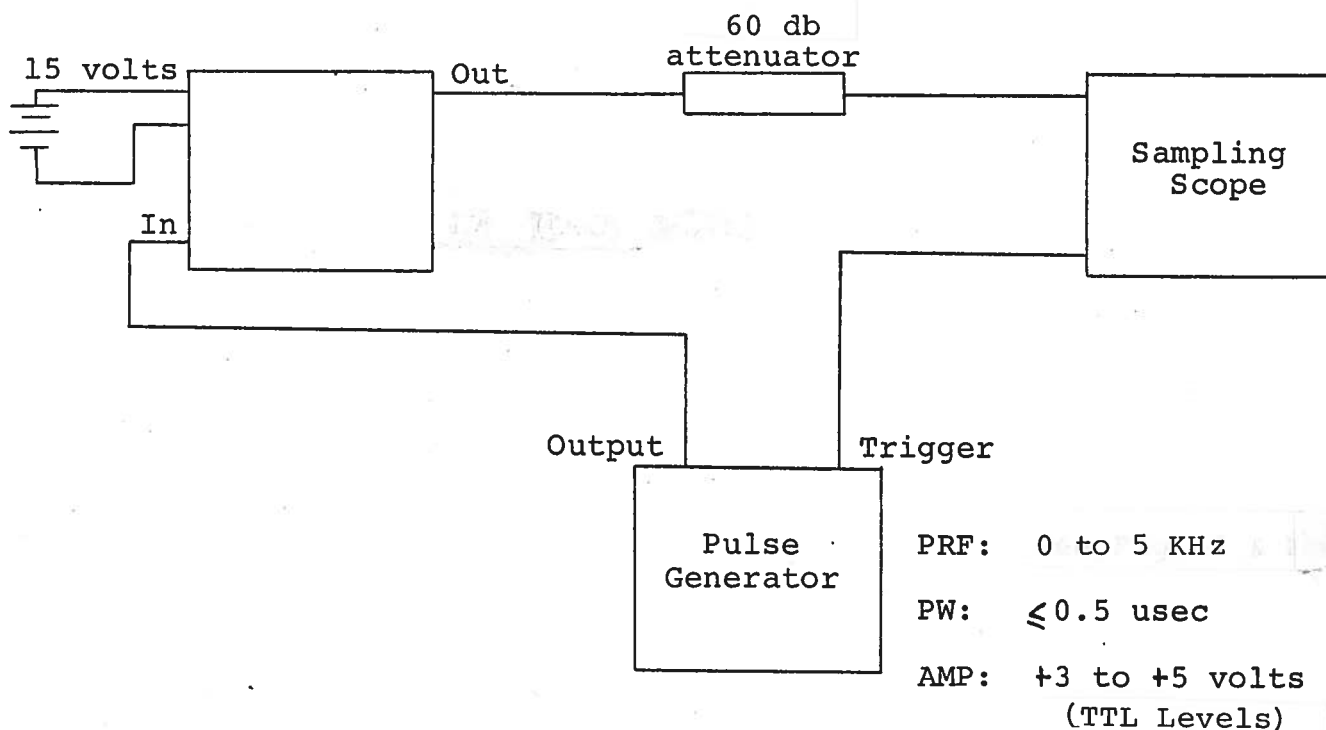is either expressed or implied.

MODEL AVI PULSE GENERATOR TEST ARRANGEMENT

60 db
attenuator

15 volts

Out

Sampling
Scope

In

Output

Trigger

Pulse
Generator

PRF: 0 to 5 KHz

PW: ≤ 0.5 usec

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

Notes:

1) The bandwidth capability of components and instruments used
   to display the pulse generator output signal (attenuators,
   cables, connectors, etc.) should exceed one gigahertz.

2) The use of a 60 db attenuator 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 Avtech pulse generator output
   is delayed with respect to the trigger input signal by about
   50 nsec (typically).

4) The AVI-US1 unit is connected to the AVX-M1 transformer via the 4 foot long miniature coaxial cable. The output of the transformer must be terminated in 200 ohms in order to obtain the required output of -200V volts.