

AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
ENGINEERING . MANUFACTURING

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INSTRUCTIONS

MODEL AVX-M4

The AVX-M4 transformer is designed to be used with the Avtech Model AVN-S-1-P (Serial No.) pulse generator to transform the peak output signal amplitude from +10 volts to +20 volts. The transformer requires a 50 ohm source impedance (as provided by the AVN unit) and a 200 ohm load resistance. The 200 ohm load should be soldered between the center conductor and either ground pad of the high impedance output microstrip line.

CAUTION:

- a) Use minimal heat when soldering to the transformer.
- b) A DC short exists between the centre conductor and the ground of the transformer. Therefore, the DC offset of the AVN unit cannot be used with the transformer.

The rise time and voltage ratio of the transformer were confirmed by soldering a 1/4 watt 330 ohm resistor to the transformer output and monitoring the output using an Avtech Model AVX-BP-1 scope probe (500 ohm input impedance).