

MAGNETICS

PULSE TRANSFORMER

- High Voltage
- Airborne Radar Application



Features:

- Full MIL-E-5400H Class 1 Environment, 35,000 foot altitude
- 22,000 hour MTBF

This unit is a high voltage pulse transformer used in the E-2C Hawkeye Airborne Surveillance Radar. The unit forms an integral part of the modulator for the Coaxitron radar transmitter by providing a 20kV, 200AMP, 13uS positive pulse to the plate circuit of the grid amplifier tube.

Specifications:

Electrical Specifications

- **Input Voltage:** 5 kV nominal, 800AMPS peak
- **Frequency:** 285 PPS to 305 PPS
- **Input Working Voltage:** 6.5 kV PEAK
- **Rated Input Power:** 3.05 MW PEAK at a duty cycle of .0039
- **Full Load Rated Current:** 205 AMPS peak
- **Output Working Voltage:** 26 kV PEAK
- **Efficiency:** 95%
- **Capacity divider:** 1000:1 on the output when used in series with a 15,000pF capacitor

Mechanical Specifications

- **Weight:** 65 lbs
- **Size:**
- **Operating Temp:** -54 to +71 °C
- **Liquid Cooled:** FC-77, 11.6GPM

Rev. B