

## MAGNETICS

### PULSE FORMING NETWORK (PFN)

*- 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-forming network, which is used in the E-2C Hawkeye Airborne Surveillance Radar. The unit forms a part of the E-Line modulator for the Coaxitron radar transmitter.

### Specifications

#### Electrical Specifications

- **Pulse Width:** 12.8 microseconds
- **Pulse repetition Rate:** 285 to 305 pps
- **Peak Charging Voltage:** 12.2 KV maximum
- **Pulse rise time:** .7 microseconds maximum
- **Pulse fall time:** 2.1 microseconds maximum
- **Pulse Droop:** 4% maximum
- **Ripple on pulse:** 5% peak to peak

#### Mechanical Specifications

- **Weight:** 115 lbs.
- **Size:** 15" x 18" x 10"
- **Operating Temp:** -54 to +71°C
- **Liquid Cooled:** FC-77 11.6 GPM

GE-12k1-PFN