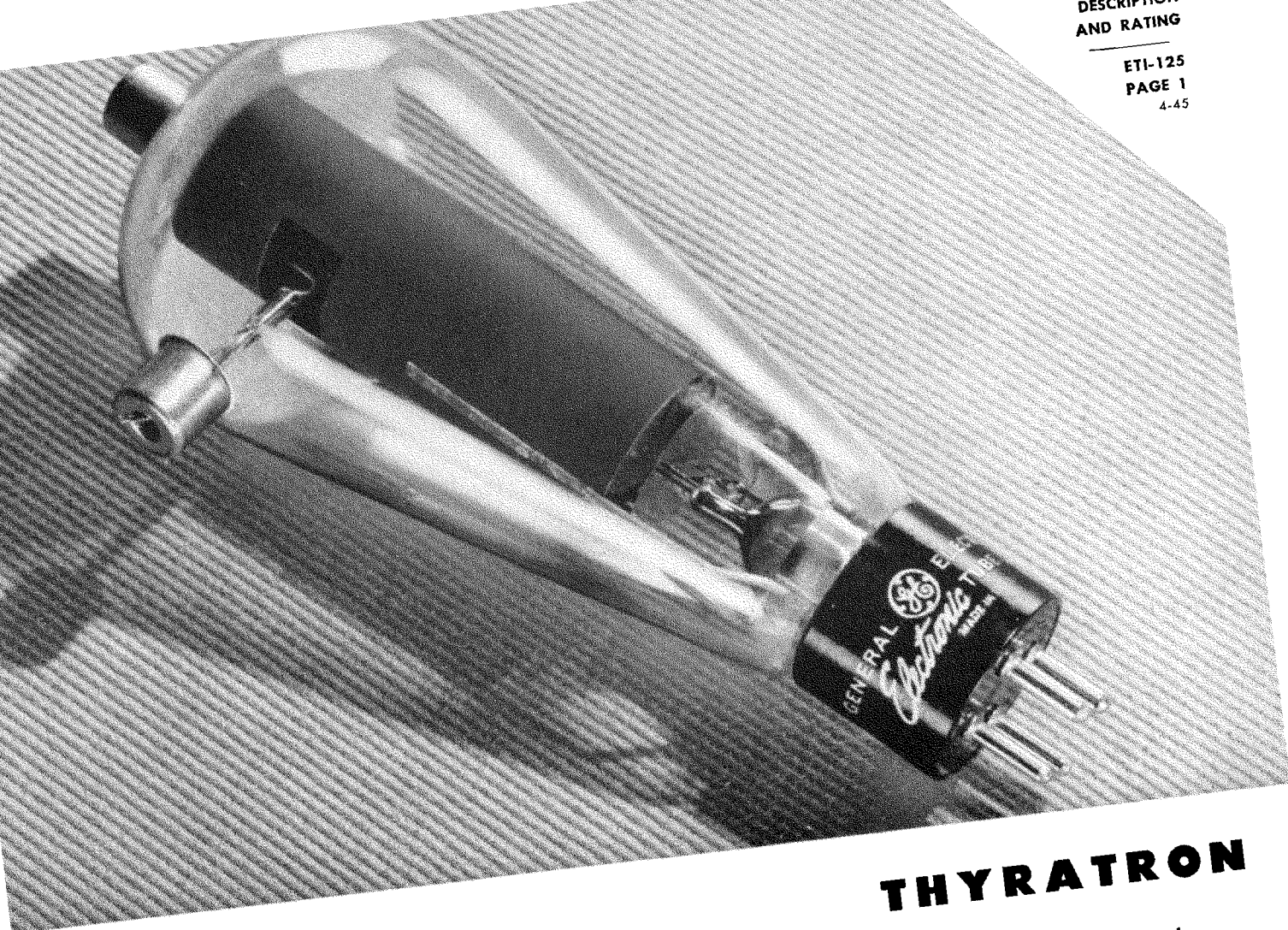




THYRATRON

DESCRIPTION

The FG-95 is a double-grid mercury-vapor thyatron for use in applications where the available grid power is very small and where it is desired to actuate

the grid from a high-impedance source. It may be used in applications where the tube temperature can be maintained relatively constant.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes.....	4	
Electrical		
Cathode—Indirectly heated type	5.5*	5.0 volts
Voltage.....	5.0*	4.5 amperes
Current, approx.....		.5 minutes
Heating time, typical.....		16 volts
Peak voltage drop, typical.....		
Approximate control characteristics		
Anode voltage.....	100	1000 volts
Shield-grid voltage.....	0	0 volts
Control-grid voltage.....	+1.0	-9.0 volts
Anode to control grid capacitance, approx.....		0.2 micromicrofarad
Ionization time, approx.....		10 microseconds
Deionization time, approx.....		1000 microseconds

*These ratings apply only when the tube is used for ignitor firing.

GENERAL ELECTRIC

**Electronic
TUBE**

TECHNICAL INFORMATION (CONT'D)

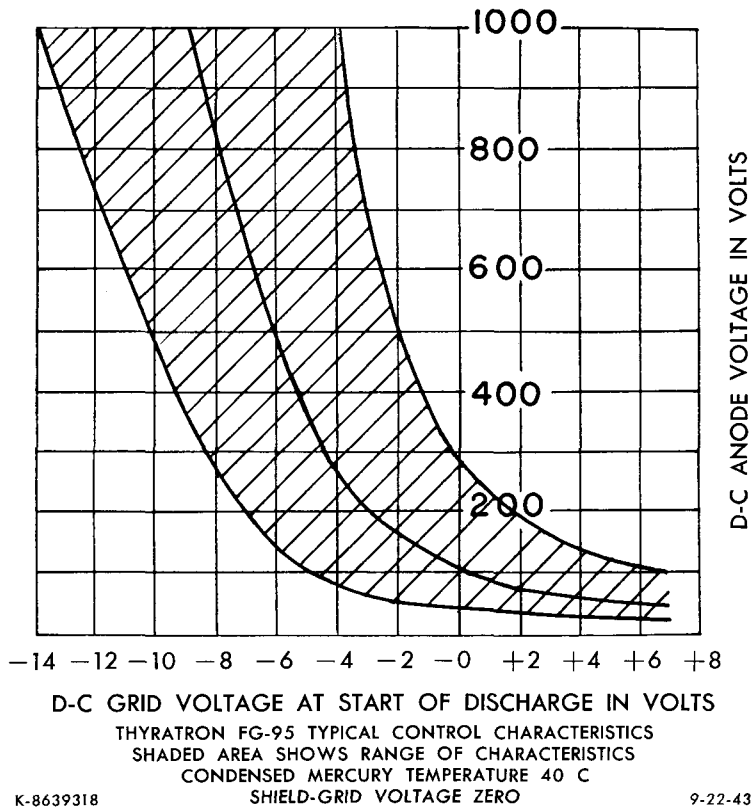
Mechanical

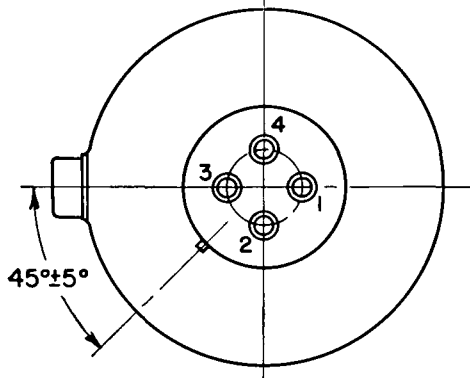
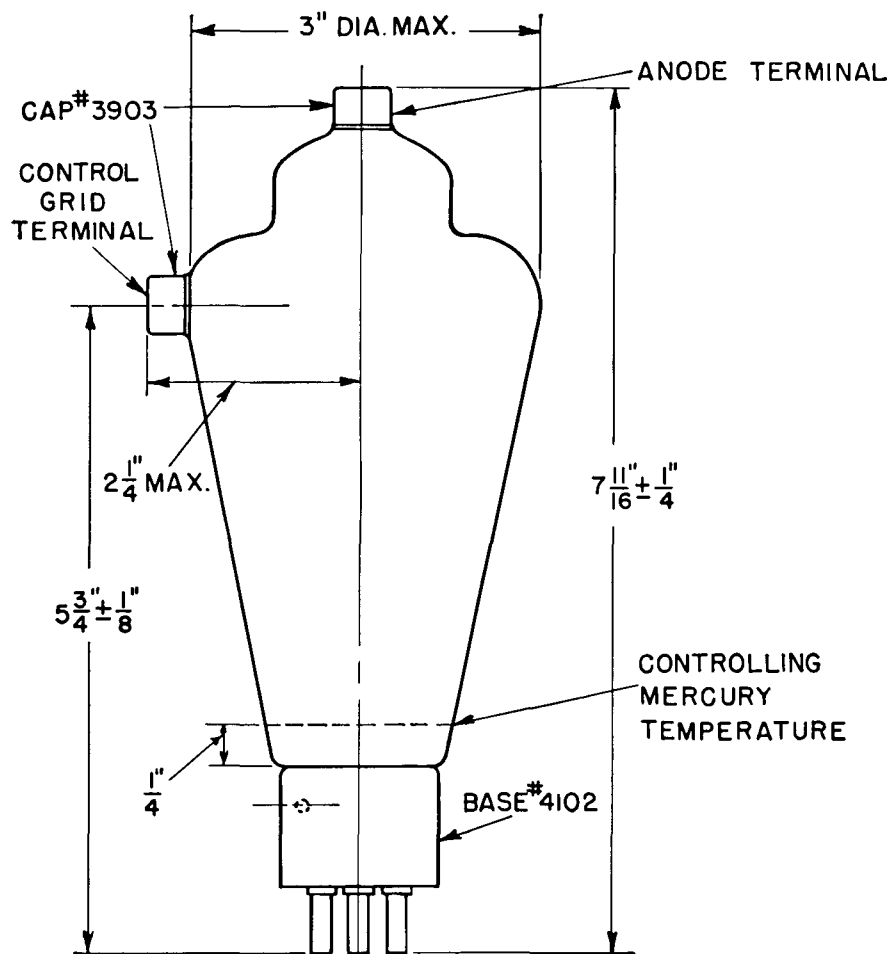
Net weight, approx.	5 ounces
Shipping weight, approx.	7 pounds
Operating position	vertical, base down

MAXIMUM RATINGS

Maximum peak anode voltage	
Inverse	1000 volts
Forward	1000 volts
Maximum negative control-grid voltage	
Before conduction	1000 volts
During conduction	10 volts
Maximum negative shield-grid voltage	
Before conduction	300 volts
During conduction	5 volts
Maximum anode current	
Instantaneous, 25 cycles and above	30* 15 amperes
Instantaneous, below 25 cycles	5.0 amperes
Average	0.5* 2.5 amperes
Surge, for design only	200 amperes
Duration of surge current	0.1 second
Maximum control-grid current	
Instantaneous	1.0 ampere
Average	0.25 ampere
Maximum shield-grid current	
Instantaneous	1.0 ampere
Average	0.25 ampere
Maximum time of averaging current	15 seconds
Temperature limits, condensed mercury	+40 to +80 centigrade
Recommended temperature, condensed mercury	40 centigrade

*These ratings apply only when the FG-95 is used for ignitor firing.





PIN	FG-95
1	HEATER
2	CATHODE, GRID & ANODE RETURN
3	SHIELD GRID
4	CATHODE & HEATER

K-4955907

8-18-44

OUTLINE
FG-95 THYRATRON

