



PHANOTRON

DESCRIPTION

The GL-5558/FG-32 is a half-wave, mercury-vapor rectifier for converting alternating current to direct current. It is adapted to applications where rectification of higher currents at lower frequencies and voltages is desired than is possible with high-vacuum tubes. In comparison with high-vacuum

tubes the GL-5558/FG-32 has a relatively low and constant voltage drop which is an advantage in low-voltage rectifier applications as it allows more efficient utilization of power and results in lower circuit losses.

TECHNICAL INFORMATION

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

GENERAL

Electrical Data

	Minimum	Bogey	Maximum
Cathode—Indirectly heated			
Heater voltage.....	4.75	5.0	5.25 volts
Heater current at 5 volts.....	—	4.5	4.9 amperes
Cathode heating time.....	5	—	— minutes
Anode voltage drop.....	—	15	— volts
Critical anode voltage.....	—	—	50 volts

† Completely revised.


Electronic
TUBE

GENERAL  ELECTRIC

Supersedes ETI-147B dated 10-47

TECHNICAL INFORMATION (CONT'D)

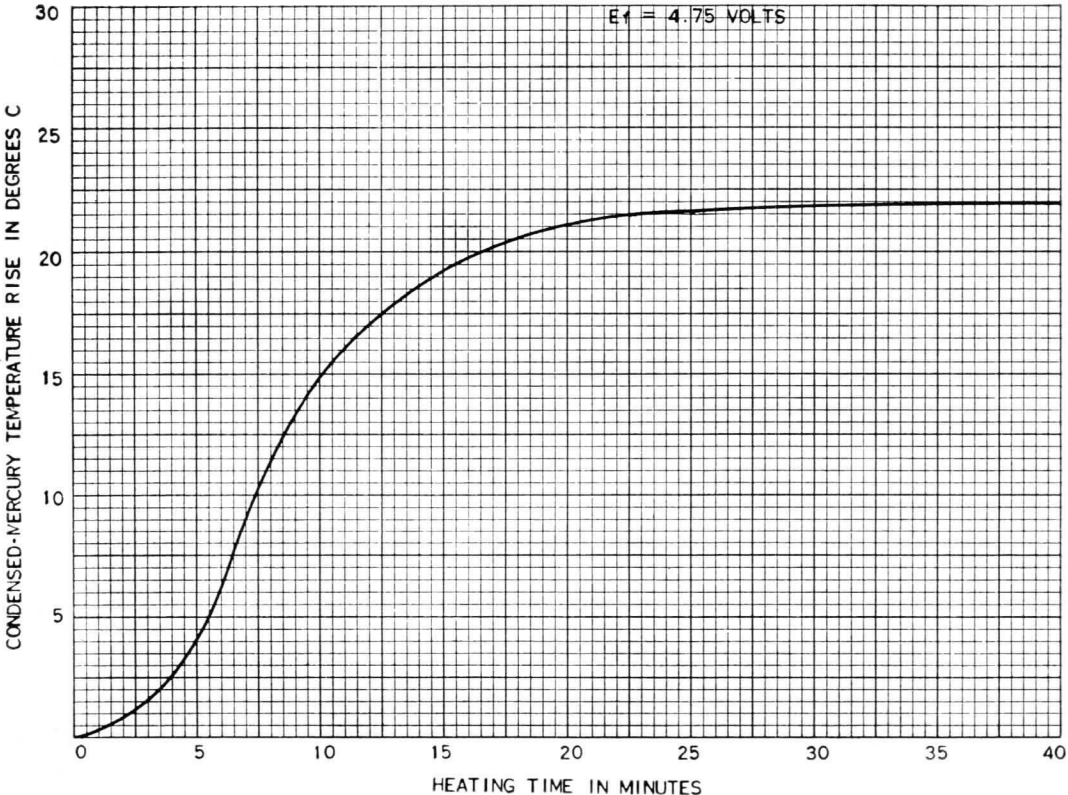
Mechanical Data

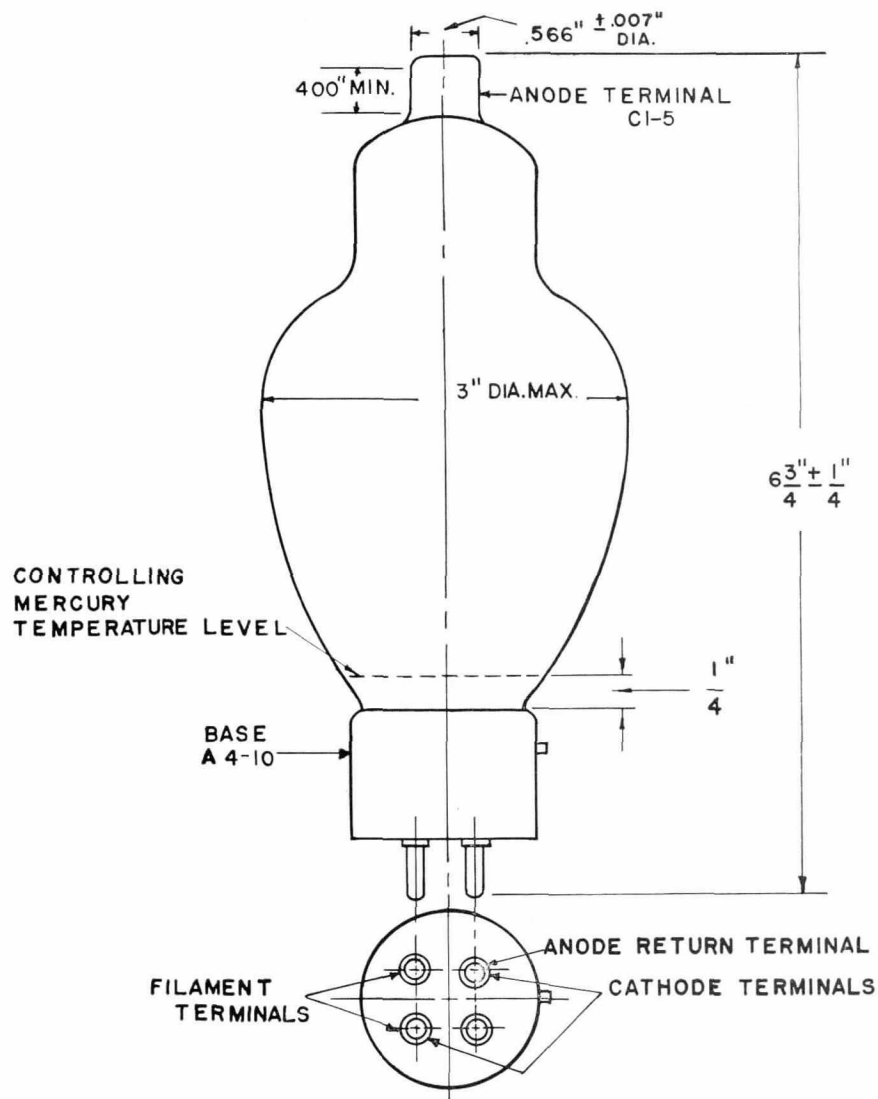
Type of cooling—Convection	
Equilibrium condensed-mercury-temperature rise above ambient	
At full load, approximate	28 C
At no load, approximate	22 C
Mounting position—Vertical, base down	
Net weight, maximum	.5 ounces

MAXIMUM RATINGS, Absolute Values

Maximum peak inverse anode voltage	2000	5000 volts
Condensed-mercury temperature limits	+30 to +80	+30 to +60 C
Maximum cathode current		
Peak	15	15 amperes
Average	2.5	2.5 amperes
Surge (maximum duration 0.1 second)	200	200 amperes
Maximum averaging time	15	15 seconds
Maximum frequency	150	150 cycles per sec.

GL-5558/FG-32
RATE OF RISE OF CONDENSED-
MERCURY TEMPERATURE ABOVE AMBIENT



OUTLINE
GL-5558/FG-32 PHANOTRON

K-4373333

10-15-45

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GENERAL ELECTRIC
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