

DATA FOR E.I.A. REGISTRATION

Page 1

November 5, 1958

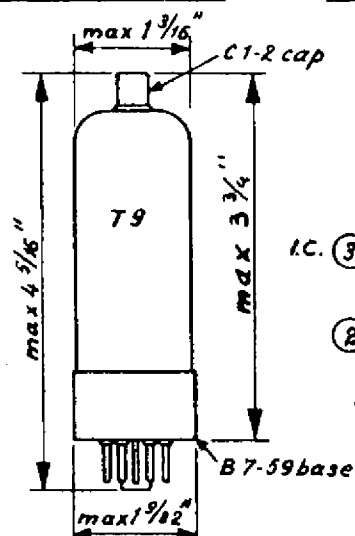
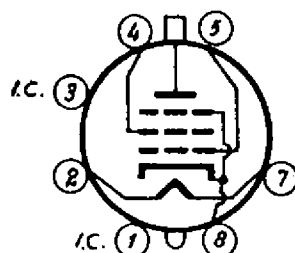
TUBE TYPE

13CM5

brought by

Rogers Electronic Tubes and Components,
116 Vanderhoof Avenue,
Leaside (Toronto 17) Ontario

DESCRIPTION: Output pentode for use as horizontal output tube in television receivers; heater type; T9 bulb; body length $3\frac{3}{4}$ " max.; B7-59 octal base; C1-2 miniature cap.

TUBE OUTLINEBOTTOM VIEW OF BASEBASE PIN No.

1	Internal connection
2	Heater
3	Internal connection
4	Grid No.2
5	Grid No.1
7	Heater
8	Cathode, grid No.3

HEATER DATA

Heater voltage	12.8 volts
Heater current	600 mamp

MAXIMUM RATINGS (Design center values)

Plate voltage	250 volts
Plate voltage without plate current	550 volts
Peak plate voltage	7000 volts ¹⁾
Peak inverse plate voltage	1500 volts ¹⁾
Plate dissipation	see curve
Grid No.2 dissipation	see curve ²⁾

¹⁾Maximum pulse duration 22% of one cycle with a maximum of 18 micro seconds.

²⁾During the heating up time of the booster diode the maximum permissible value of the grid No.2 dissipation is 7 watts.

MAXIMUM RATINGS (Design Center Values; continued)

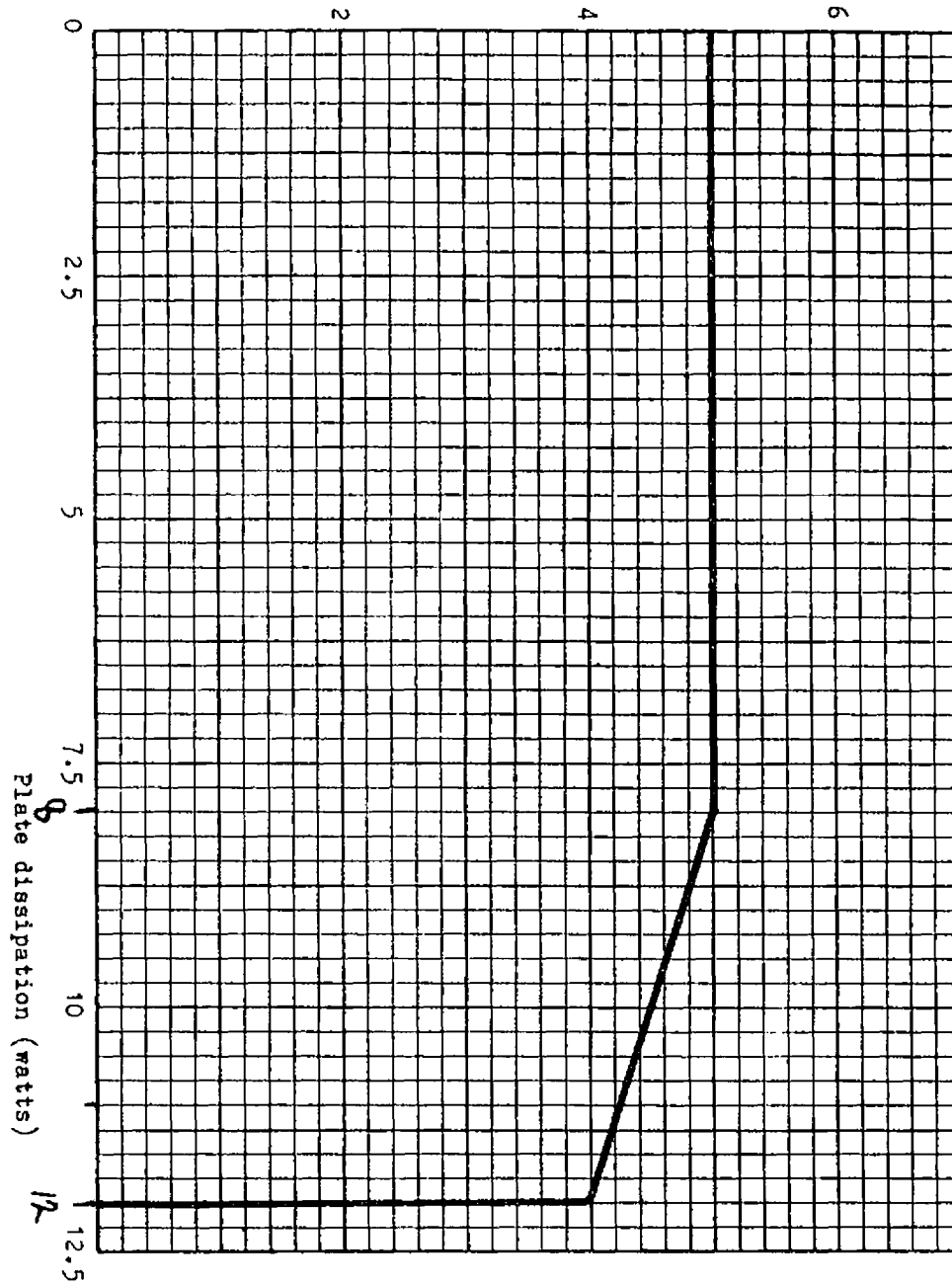
Grid No.2 voltage	250 volts
Grid No.2 voltage without current	550 volts
Peak negative grid No.1 voltage	1000 volts
Grid No.1 circuit resistance	³⁾ 0.5 megohm
Cathode current	200 mamps
Voltage between cathode and heater	
cathode positive with respect to heater	250 volts
Cathode negative with respect to heater	200 volts
Circuit resistance between cathode and heater	20 000 ohms

TYPICAL CHARACTERISTICS

Plate voltage	100 volts
Grid No.2 voltage	100 volts
Grid No.1 bias	-8.2 volts
Plate current	100 mamps
Grid No.2 current	7 mamps
Transconductance	14 000 micromhos
Amplification factor of grid No.2 with respect to grid No.1	5.6
Plate resistance	5000 ohms

³⁾ If the total dissipation of anode and grid No.2 is less than 10 Watts, the max. value of grid No.1 circuit resistance may amount up to 2.2 megohms.

Grid No.2 dissipation (watts)



Type 13CM5
Area of permissible operation