

#200

**E. I. A.
REGISTRATION
FILE**

Form II
(a)

AMPLIFIER

Reservation No. 234 Date 6/26/39 Registration No. _____ Date _____

Type No. (12B7(ML))

Sponsor General Electric Co.

Type Classification: R.F. Pentode, Remote Cut-off

Physical Specifications:

Type of Cathode Heater Type

Pin Connections:

Pin 1	<u>Heater</u>	Pin 5	<u>Internal Shield</u>	
2	<u>Plate</u>	6	<u>Control Grid (G₁)</u>	
3	<u>Screen (G₂)</u>	7	<u>Cathode</u>	Basing
4	<u>Suppressor (G₃)</u>	8	<u>Heater</u>	Designation <u>8 v</u>

Type of Base: Locking 8-Pin

Type of Cap: No cap

Type of Bulb: Metal

Max. Diameter 1 3/16 inches

Max. Overall Length 2 25/32 "

Max. Seated Height 2 1/4 "

Mounting Position for Operation:

Any

Direct Interelectrode Capacitances:

Grid to plate ()	<u>0.005</u>	Max. mmf
Input (G ₁ to all other electrodes except P)	<u>5.5</u>	mmf
Output (P to all other electrodes except G ₁)	<u>7.0</u>	mmf

VOLTAGE AMPLIFIER

Class A

Ratings

Heater Voltage	12.6 volts
Heater Current	0.15 amps
Maximum Plate Voltage	250 volts
Maximum Screen Voltage	100 volts

Typical Operation and Characteristics

Plate Voltage	100	250 volts
Screen Voltage	100	100 volts
Grid Voltage	-3	-3 volts
Suppressor Voltage	0	0 volts
Plate Resistance	0.25	0.8 megohm
Transconductance	1900	2000 umhos
Grid Bias (For Transconductance=10 umhos)		-35 volts
Plate Current	8.9	9.2 ma
Screen Current	2.6	2.4 ma