

6EW7

Dual Triode

With Medium-Mu Unit and Low-Mu Unit

NEONOVAL TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts	0.9	amp
Direct Interelectrode Capacitances (Approx.): ^a		

	Unit No. 1	Unit No. 2	
Grid to plate	4.2	9	μμf
Grid to cathode and heater. . .	2.2	7	μμf
Plate to cathode and heater . .	0.4	1.2	μμf

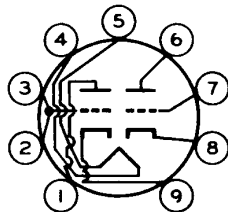
Characteristics, Class A₁ Amplifier:

	Unit No. 1	Unit No. 2	
Plate Voltage	250	150	volts
Grid Voltage	-11	-17.5	volts
Amplification Factor	17.5	6	
Plate Resistance (Approx.) . . .	8750	800	ohms
Transconductance	2000	7500	μmhos
Plate Current	5.5	45	ma
Plate Current for plate volts = 60 and grid volts = 0	-	95	ma
Plate Current for grid volts = -25	-	8	ma
Grid Voltage (Approx.) for plate μa = 10	-20	-	volts
Grid Voltage (Approx.) for plate μa = 100	-	-40	volts

Mechanical:

Operating Position Any
 Maximum Overall Length 2.93"
 Maximum Seated Length 2.62"
 Length, Base Seat to Bulb Top (Excluding tip) 2.07" to 2.31"
 Diameter 1.062" to 1.188"
 Bulb T9
 Base Large-Button Neonoval 9-Pin (JEDEC No. E9-68)
 Basing Designation for BOTTOM VIEW 9HF

Pin 1 - Plate of Unit No. 2
 Pin 2 - Grid of Unit No. 2
 Pin 3 - Grid of Unit No. 2
 Pin 4 - Heater
 Pin 5 - Heater



Pin 6 - Plate of Unit No. 1
 Pin 7 - Grid of Unit No. 1
 Pin 8 - Cathode of Unit No. 1
 Pin 9 - Cathode of Unit No. 2



6EW7

VERTICAL-DEFLECTION OSCILLATOR

Values are for Unit No.1

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^b

DC PLATE VOLTAGE.	330	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	400	max.	volts
CATHODE CURRENT:			
Peak.	77	max.	ma
Average	22	max.	ma
PLATE DISSIPATION	1.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^c	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For grid-resistor-bias or cathode-bias operation.	2.2	max.	megohms
---	-----	------	---------

VERTICAL-DEFLECTION AMPLIFIER

Values are for Unit No.2

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^b

DC PLATE VOLTAGE.	330	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE ^d	1500	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	175	max.	ma
Average	50	max.	ma
PLATE DISSIPATION	10	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 ^c	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For grid-resistor-bias or cathode-bias operation.	2.2	max.	megohms
---	-----	------	---------

^a Without external shield.

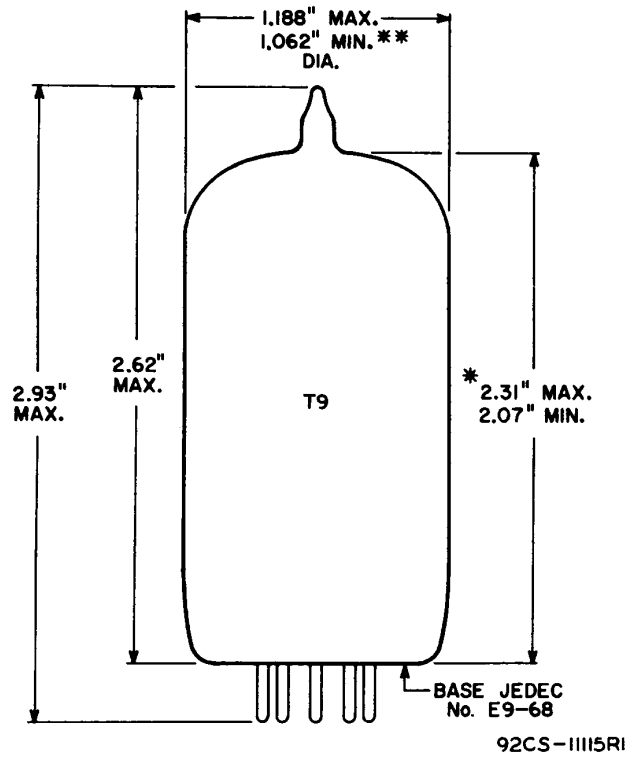
^b As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^c The dc component must not exceed 100 volts.

^d This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.



6EW7

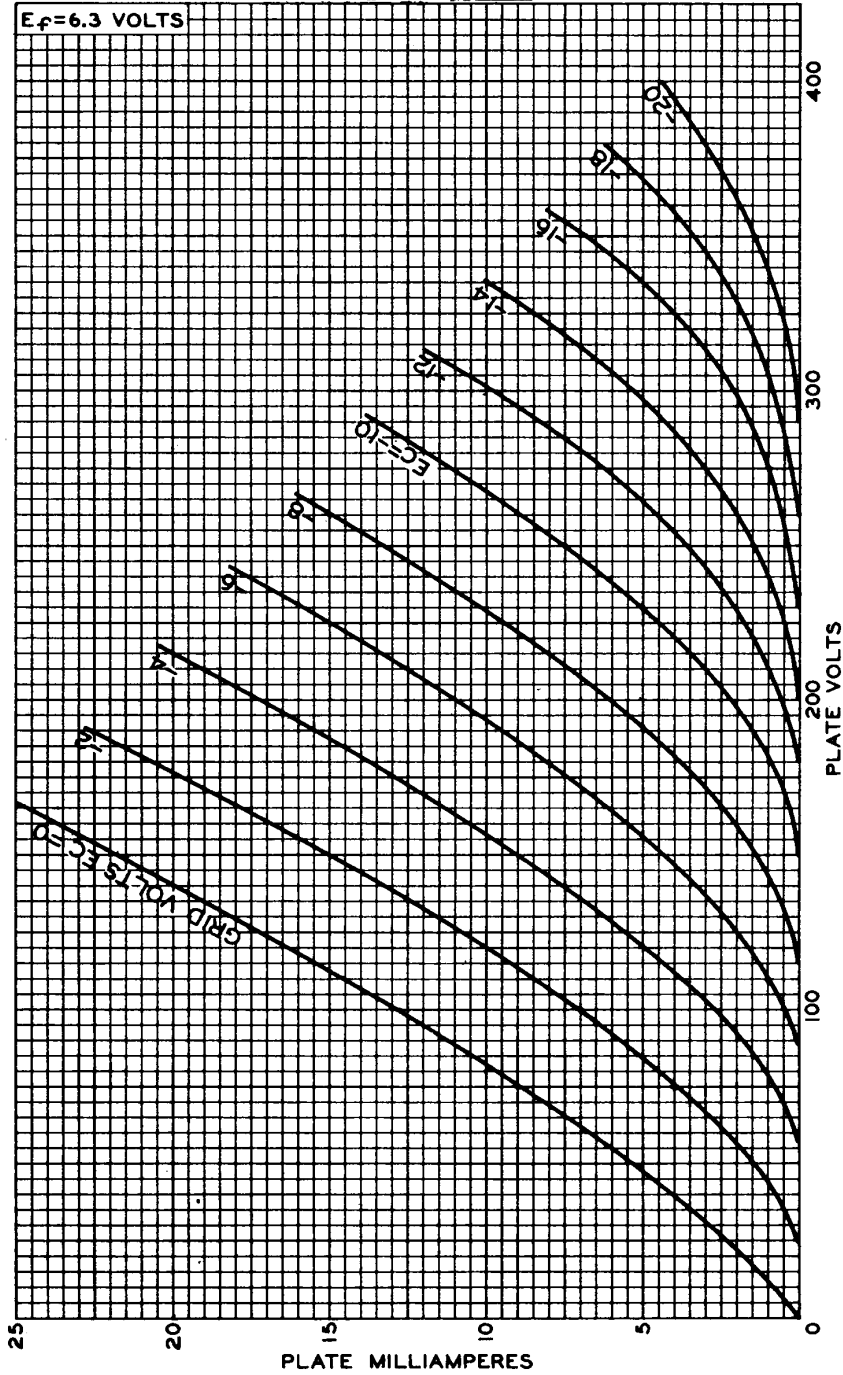


- * MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INTERNAL DIAMETER.
- ** APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.



6EW7

AVERAGE PLATE CHARACTERISTICS Unit No.1



92CM-9988

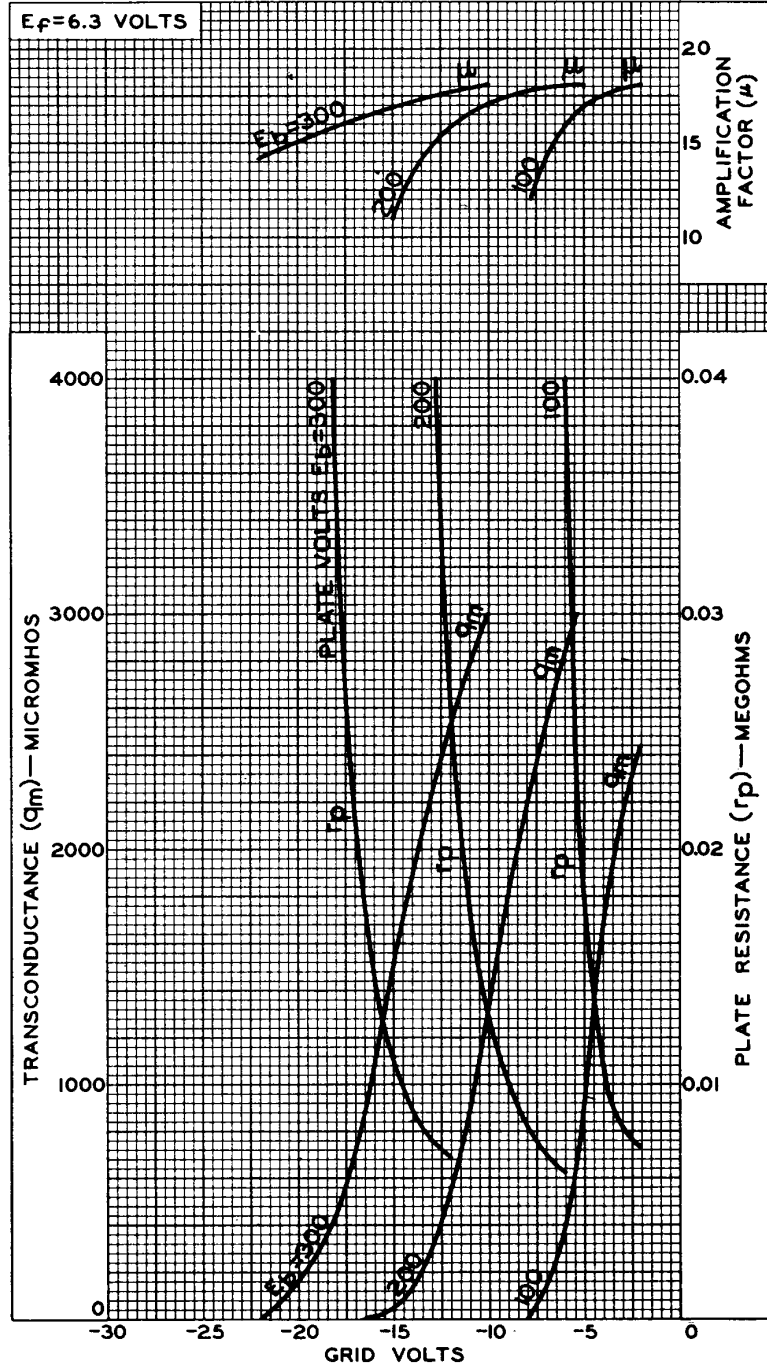
RADIO CORPORATION OF AMERICA
Electron Tube Division

Harrison, N. J.



6EW7

AVERAGE CHARACTERISTICS Unit No.1



92CM-9991

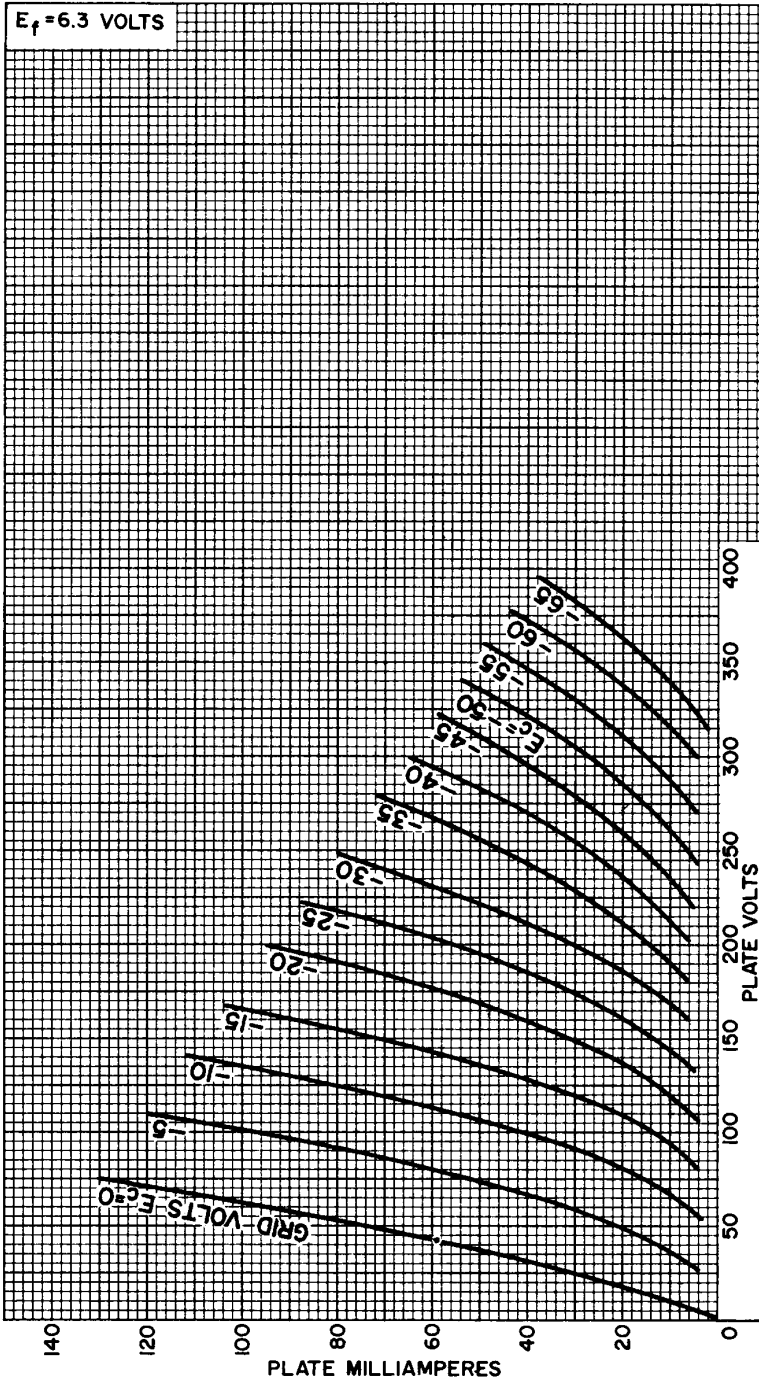


RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 3
1-62

6EW7

AVERAGE PLATE CHARACTERISTICS Unit No.2



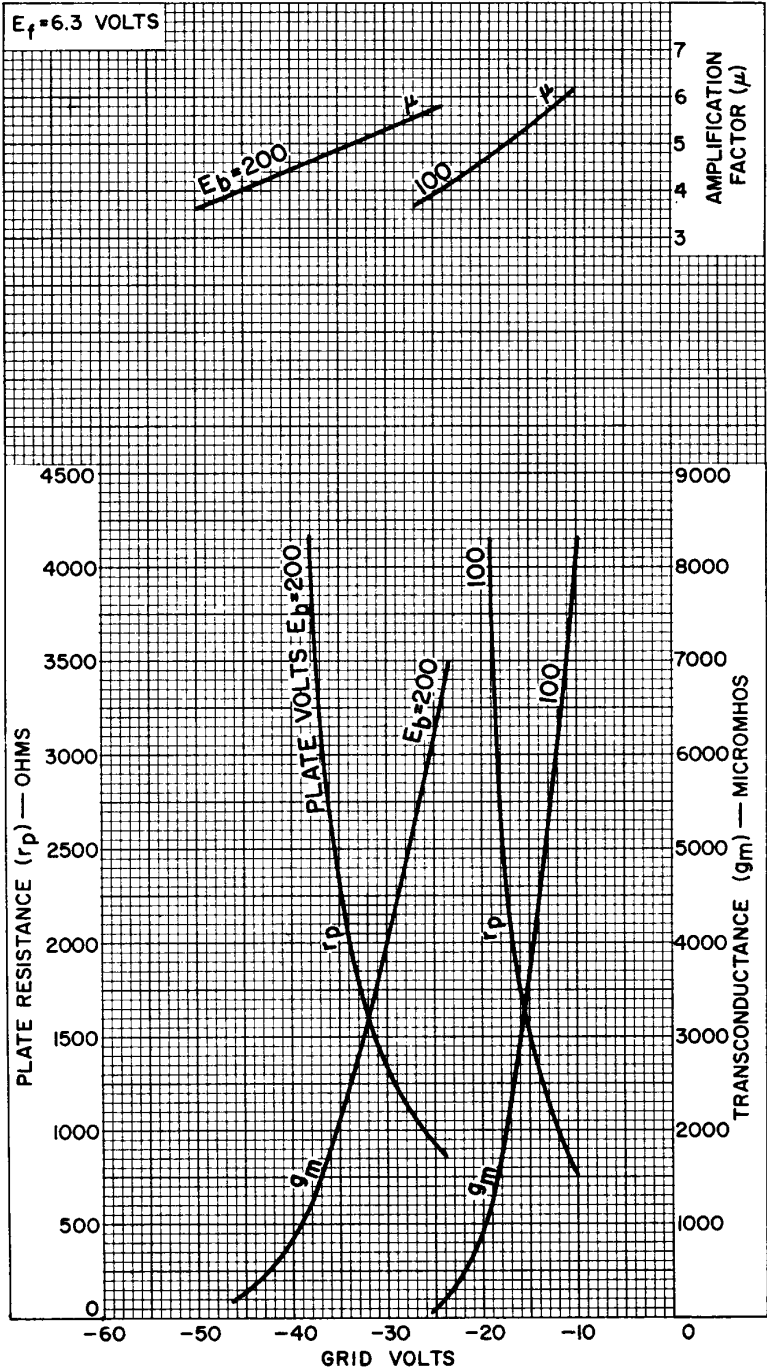
92CM-11111

RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.



6EW7

AVERAGE CHARACTERISTICS Unit No.2



92CM-11113



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 4
1-62