

## 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.):<sup>a</sup>

	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

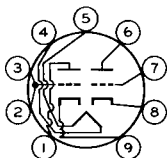
#### Characteristics, Class A<sub>1</sub> Amplifier:

	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



## VERTICAL-DEFLECTION OSCILLATOR

*Values are for Unit No. 1*

### Maximum Ratings, Design-Maximum Values:

*For operation in a 525-line, 30-frame system<sup>b</sup>*

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 <sup>c</sup>	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<sup>b</sup>*

DC PLATE VOLTAGE. . . . .	330	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE <sup>d</sup> . . . . .	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 <sup>c</sup>	max.	volts

### Maximum Circuit Values:

Grid-Circuit Resistance:

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

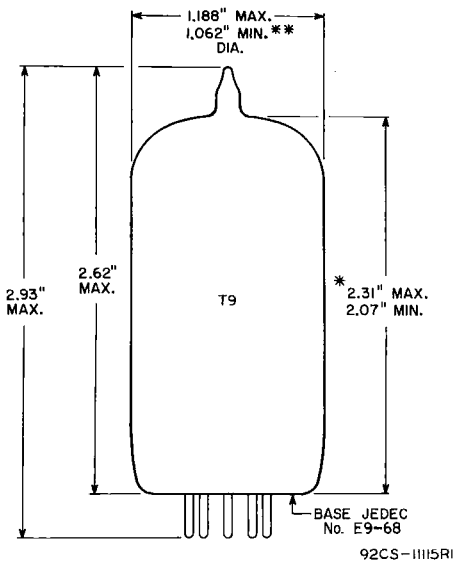
<sup>a</sup> without external shield.

<sup>b</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

<sup>c</sup> The dc component must not exceed 100 volts.

<sup>d</sup> 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.



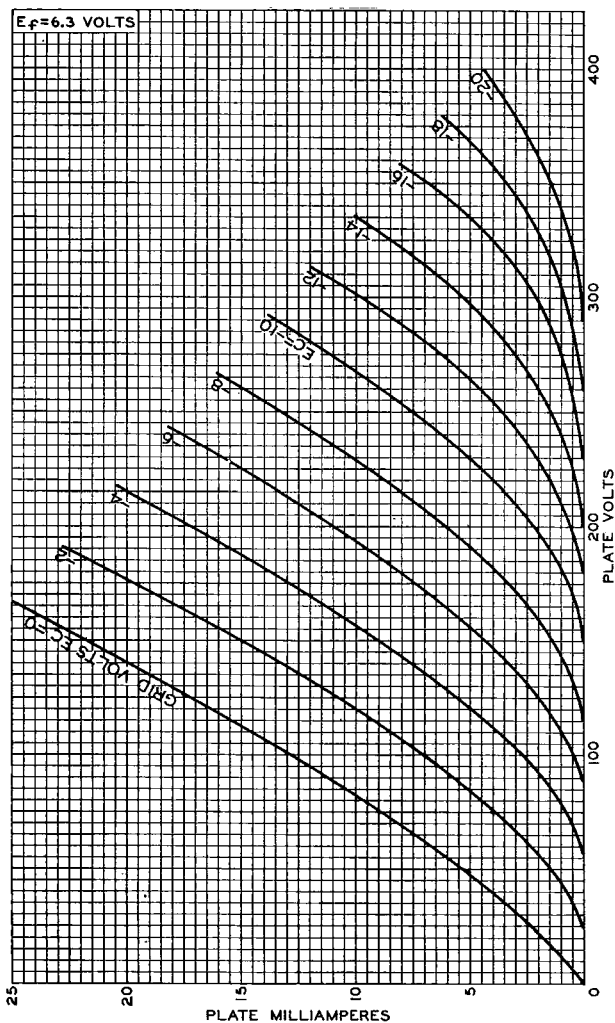


- \* MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INTERNAL DIAMETER.
- \*\* APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.



# 6EW7

## AVERAGE PLATE CHARACTERISTICS Unit No.1

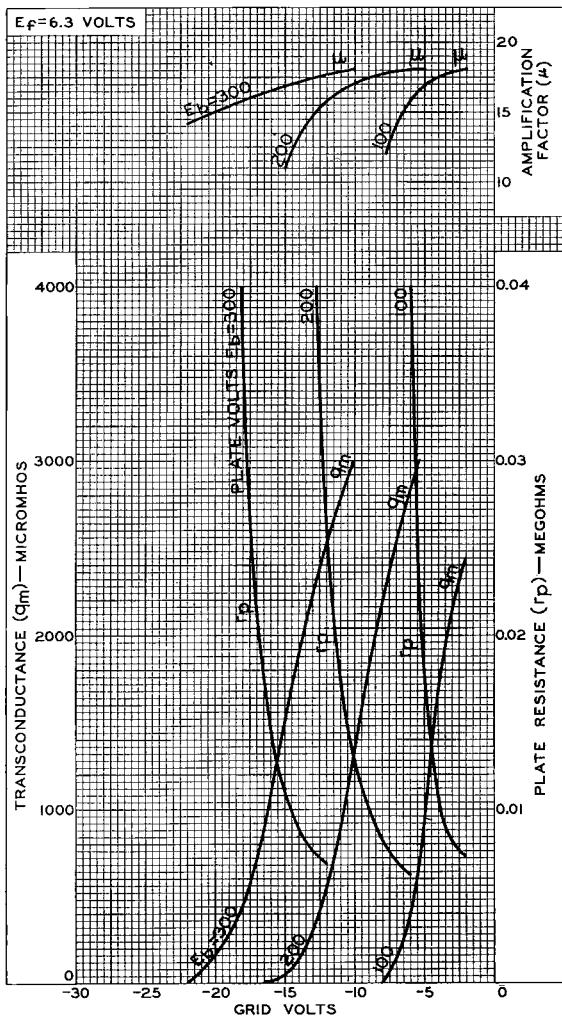


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# AVERAGE CHARACTERISTICS

## Unit No.1

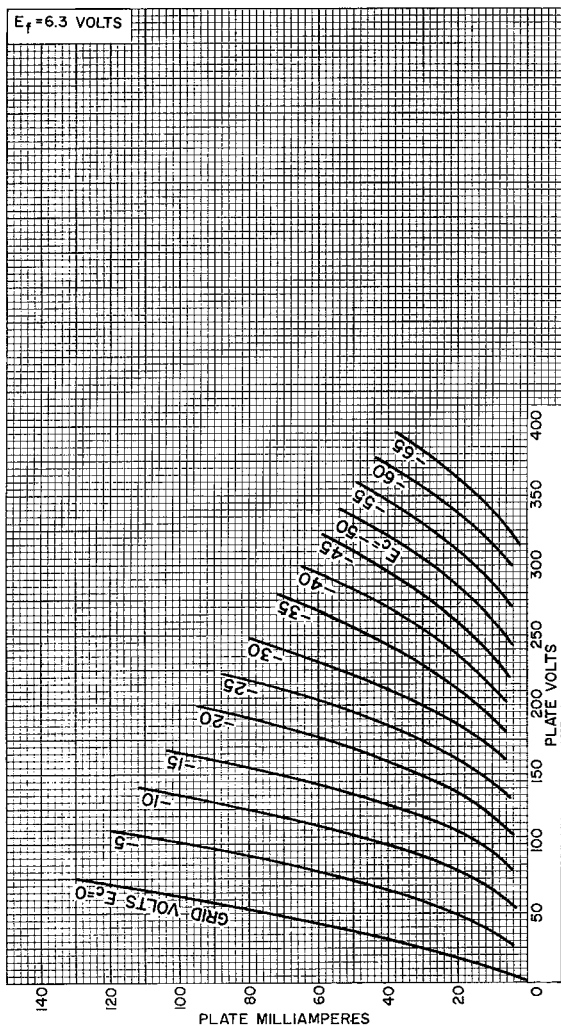


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# 6EW7

## AVERAGE PLATE CHARACTERISTICS Unit No.2

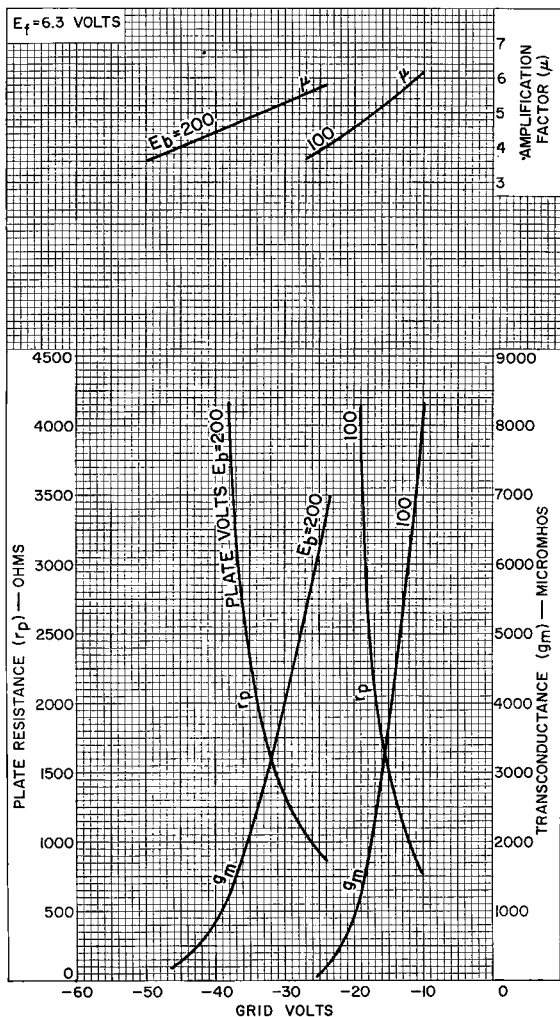


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## AVERAGE CHARACTERISTICS

### Unit No.2



92CM-11113

