

Dual Triode

With High-Mu Unit and Low-Mu Unit

NOVAR TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC) 6.3 ± 0.600 volts

Current at heater volts = 6.3 0.985 amp

Peak heater-cathode voltage

(Each unit):

Heater negative with
respect to cathode. 200 max. volts

Heater positive with
respect to cathode. 200^a max. volts

Direct Interelectrode Capacitances (Approx.):

	Unit No.1	Unit No.2	
Grid to plate	4.6	9.0	pf
Grid to cathode and heater. . .	2.4	6.5	pf
Plate to cathode and heater . .	0.26	1.4	pf

Characteristics, Class A₁ Amplifier:

	Unit No.1	Unit No.2	
Plate Voltage	250	150	volts
Grid Voltage.	-3	-20	volts
Amplification Factor.	64	5.4	
Plate Resistance (Approx.). . .	40000	750	ohms
Transconductance.	1600	7200	μ mhos
Plate Current	1.4	50	ma
Plate Current for plate volts = 60 and grid volts = 0	-	95	ma
Plate Current for grid volts = -28	-	10	ma
Grid Voltage (Approx.) for plate μ a = 10	-5.5	-	volts
Grid Voltage (Approx.) for plate μ a = 100.	-	-45	volts

Mechanical:

Operating Position. Any

Type of Cathodes. Coated Unipotential

Maximum Overall Length. 3.00"

Maximum Seated Length 2.62"

Length, Base Seat to Bulb Top (Excluding Tip). . . 2.10" to 2.28"

Diameter. 1.062" to 1.188"

Bulb. T9

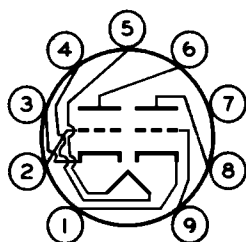
Base. Small-Button Novar 9-Pin (JEDEC No.E9-75)



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Basing Designation for BOTTOM VIEW. 9QD

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



- Pin 6—Plate of Unit No.2
- Pin 7—No Internal Connection
- Pin 8—Plate of Unit No.1
- Pin 9—Grid of Unit No.1

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

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 Except as Noted:

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

DC PLATE VOLTAGE.	330	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE			
(Absolute-maximum value) ^c	1500 ^d	max.	volts
PEAK NEGATIVE-PULSE GRID VOLTAGE.	250	max.	volts
CATHODE CURRENT:			
Peak.	175	max.	ma
Average	50	max.	ma
PLATE DISSIPATION	11	max.	watts

Maximum Circuit Values:

Grid-Circuit Resistance:

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

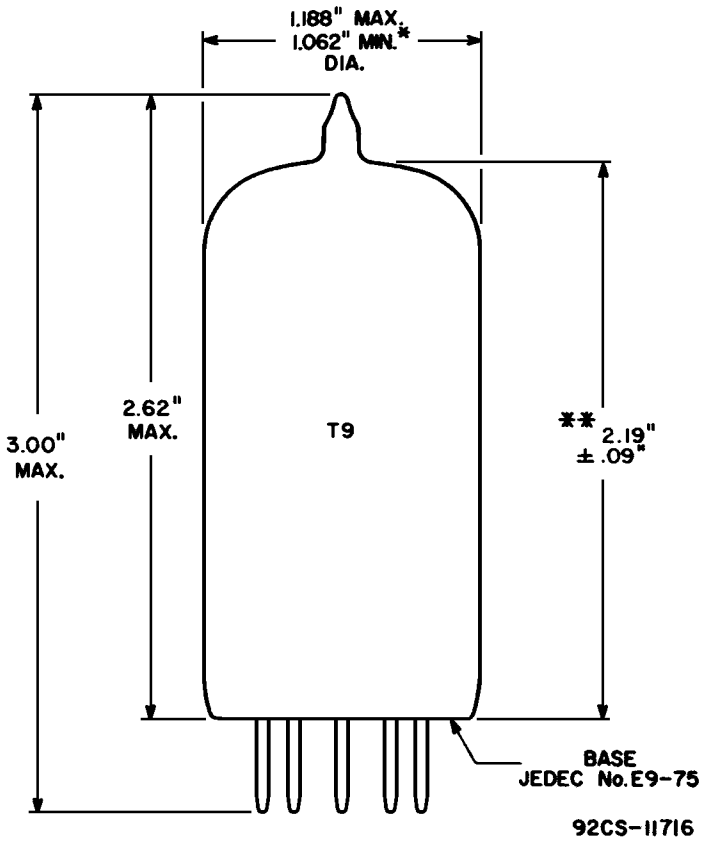
For cathode-bias operation. 2.2 max. megohms

^a The dc component must not exceed 100 volts

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

^c 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.

^d Under no circumstances should this absolute-maximum value be exceeded.



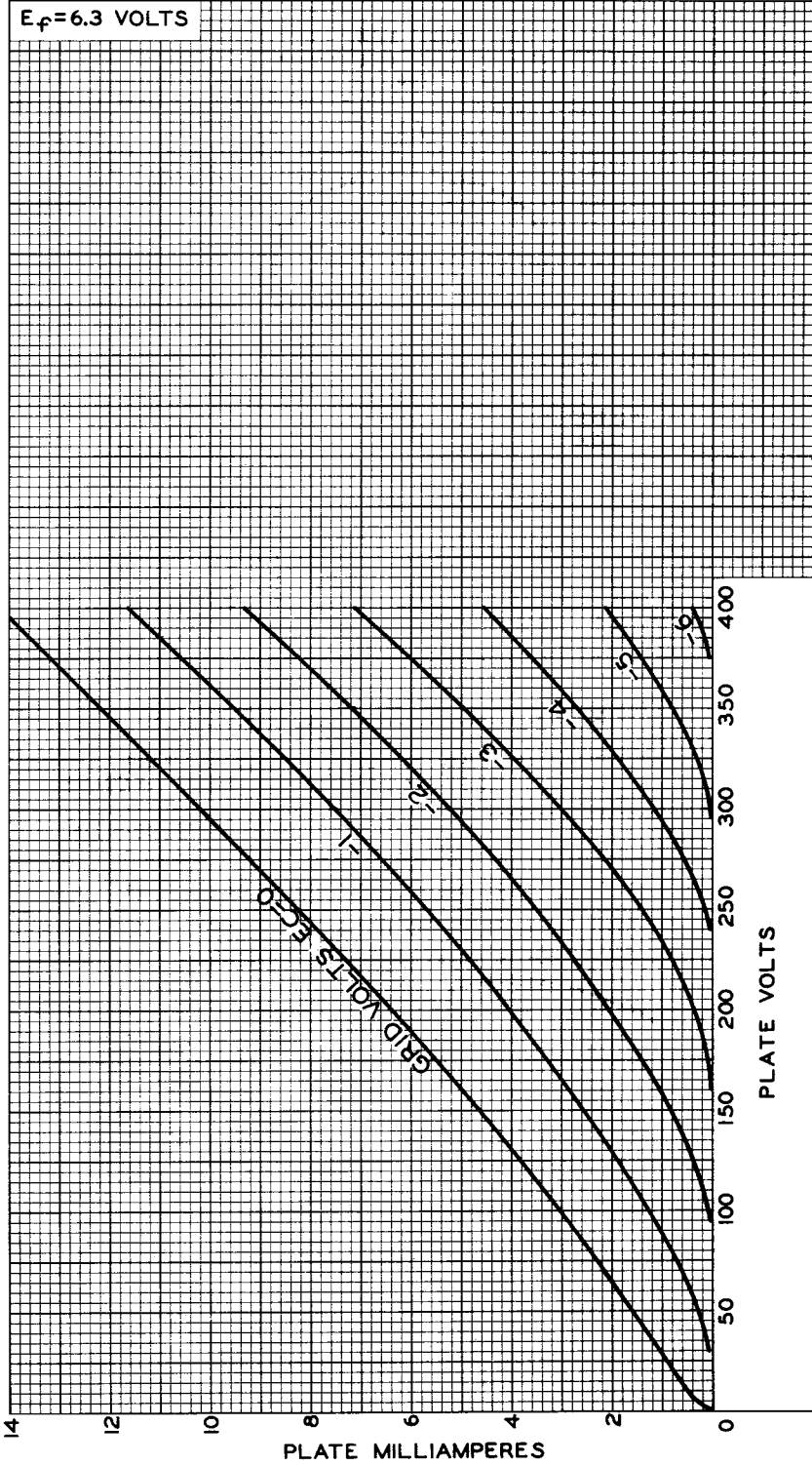
* APPLIES IN ZONE STARTING 0.375" FROM BASE SEAT.

** MEASURED FROM BASE SEAT TO BULB-TOP LINE AS DETERMINED BY A RING GAUGE OF 0.600" INSIDE DIAMETER.



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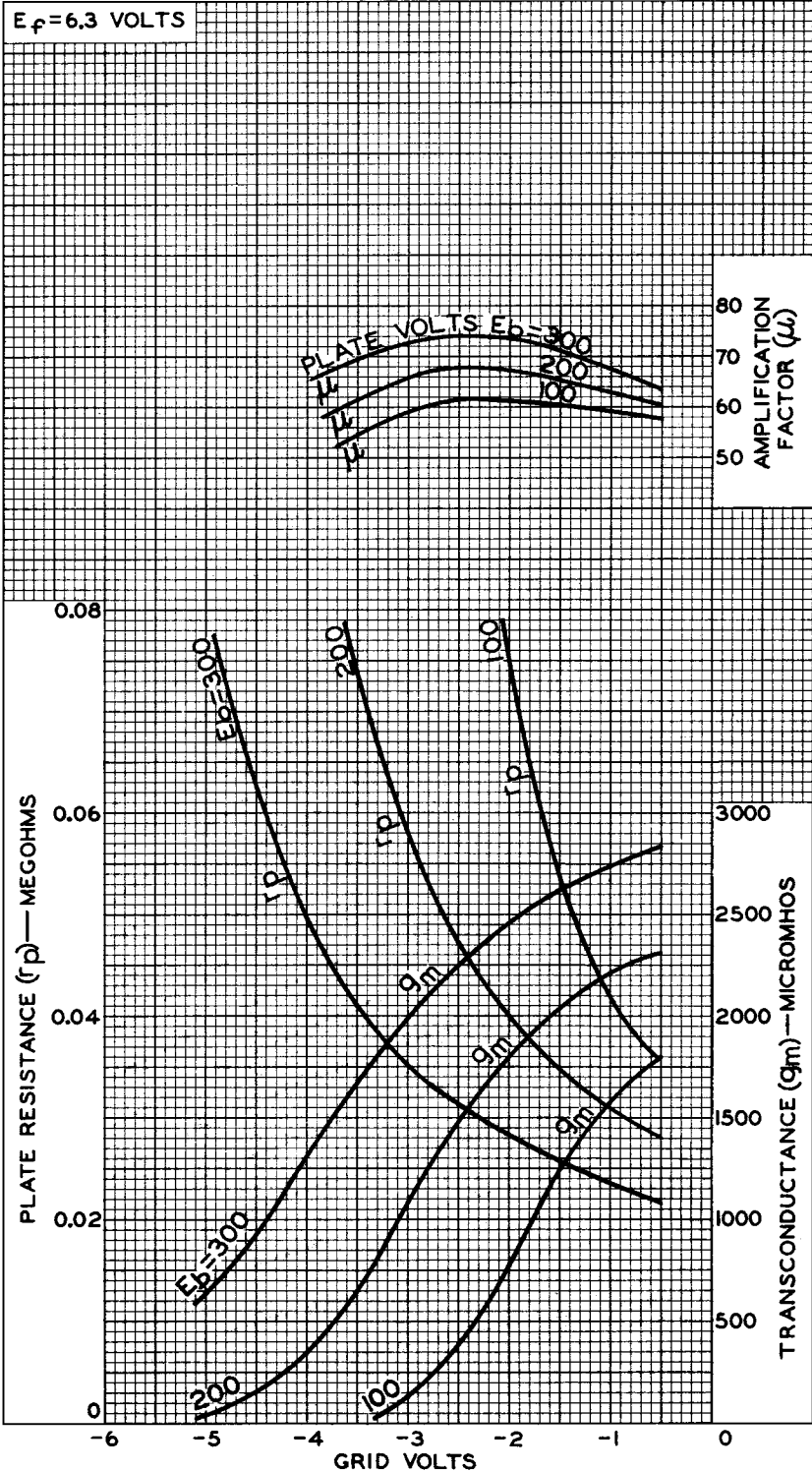
AVERAGE PLATE CHARACTERISTICS Unit No.1



92CM-9912



AVERAGE CHARACTERISTICS
Unit No.1

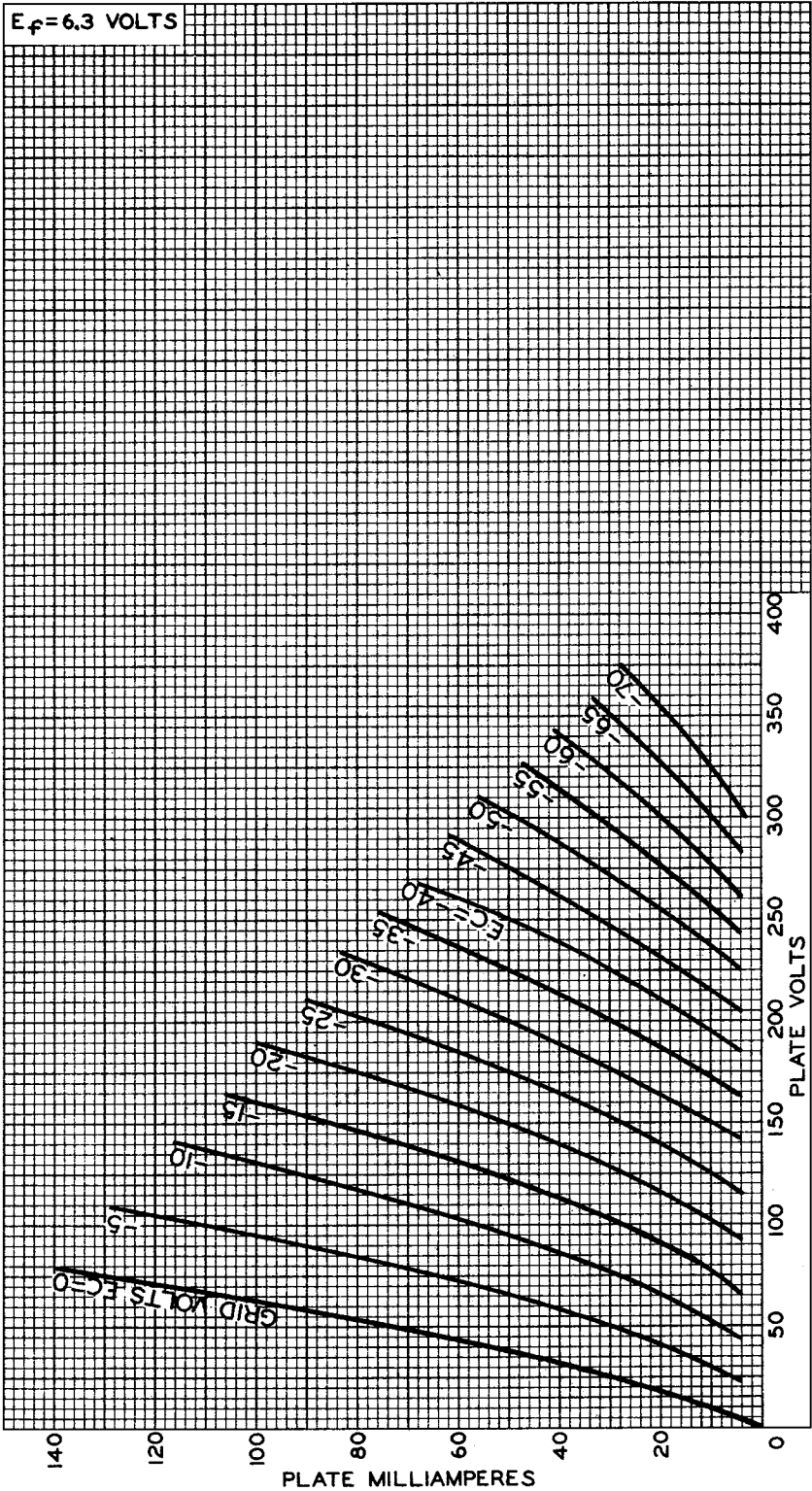


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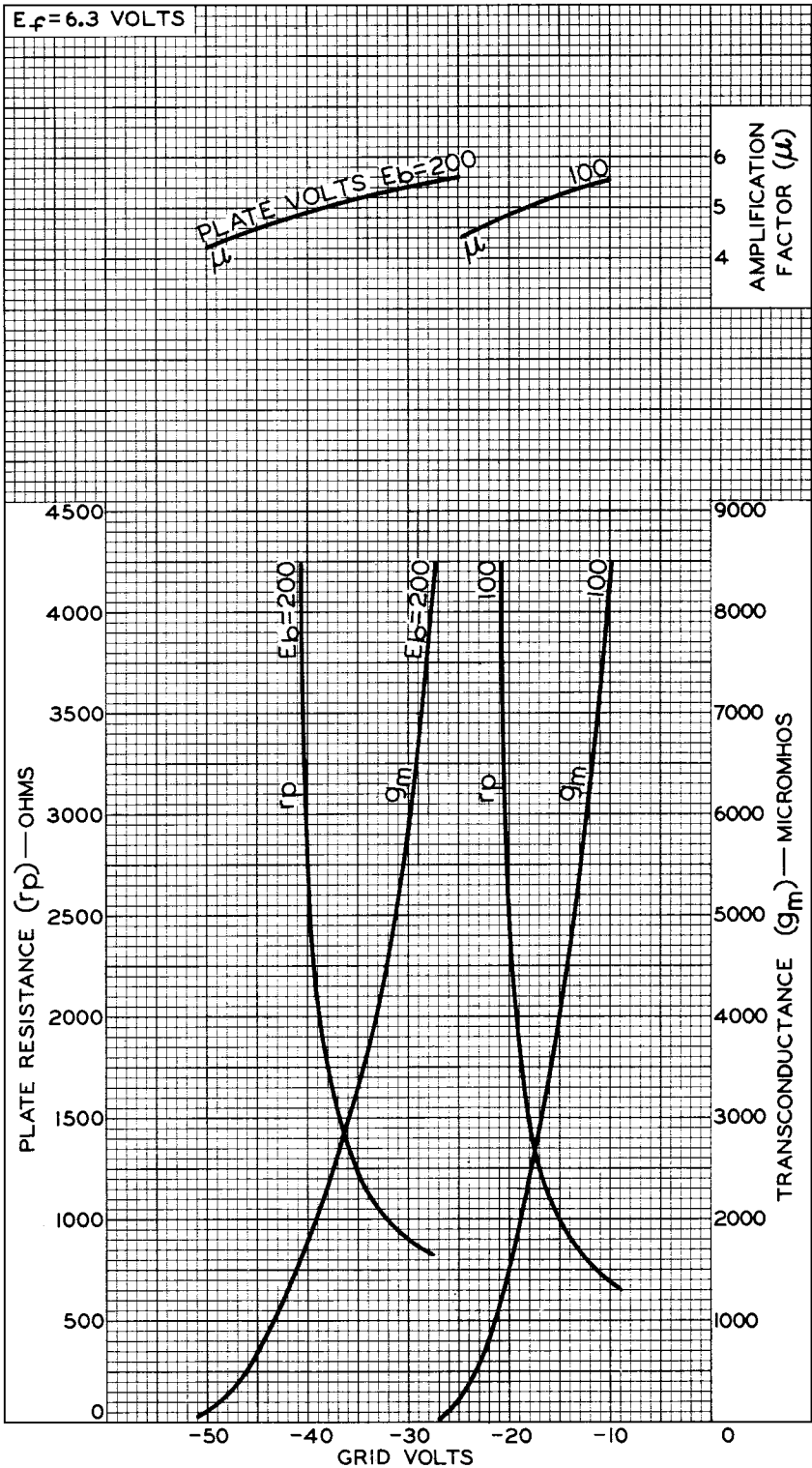
AVERAGE PLATE CHARACTERISTICS Unit No.2



92CM-10466



AVERAGE CHARACTERISTICS Unit No.2



92CM-10467

