

Dual Triode

With High-Mu Unit and Low-Mu Unit

NOVAR TYPE

For Combined Vertical-Deflection-Oscillator
and-Amplifier Service in TV Receivers

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ± 0.6	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

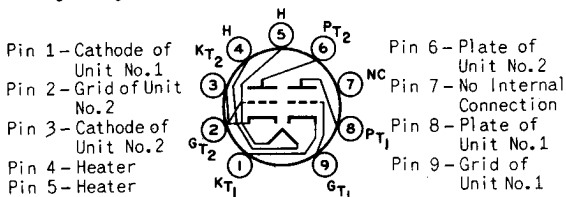
Direct Inter-electrode Capacitances (Approx.):

	Unit No. 1	Unit No. 2	
Grid to plate	4.6	9.0	pf
G to (K,H)	2.4	6.5	pf
P to (K,H)	0.26	1.4	pf

Mechanical:

Operating Position	Any
Types of Cathodes	Coated Unipotential
Maximum Overall Length	2.380"
Seated Length	1.750" to 2.000"
Diameter	1.062" to 1.188"
Dimensional Outline	See General Section
Bulb	T9
Base	Small-Button Novar, 9-Pin with Exhaust Tip (JEDEC No. E9-89)

Basing Designation for BOTTOM VIEW 9QD



Characteristics, Class A₁ Amplifier:

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



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

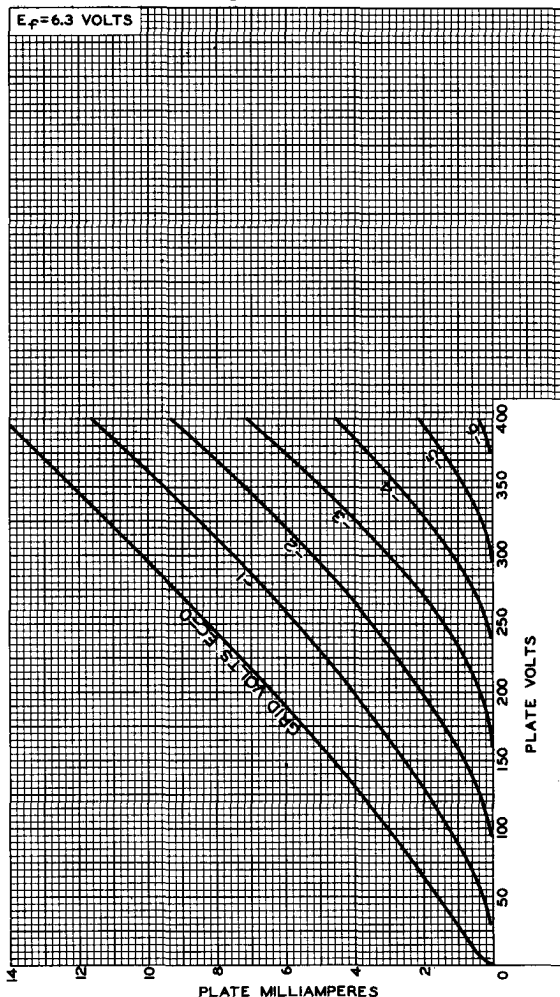
^a The dc component must not exceed 100 volts.

^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.

AVERAGE PLATE CHARACTERISTICS Unit No.1

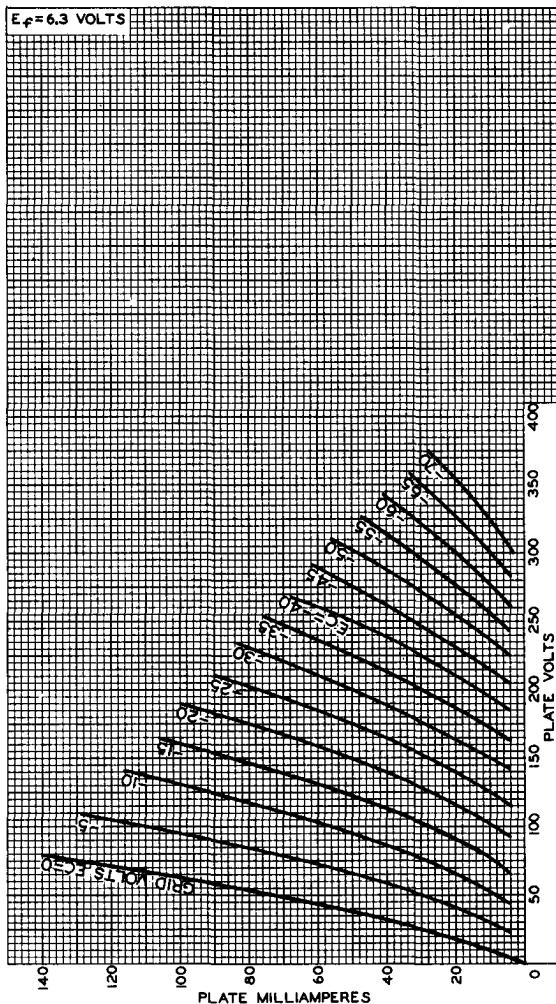


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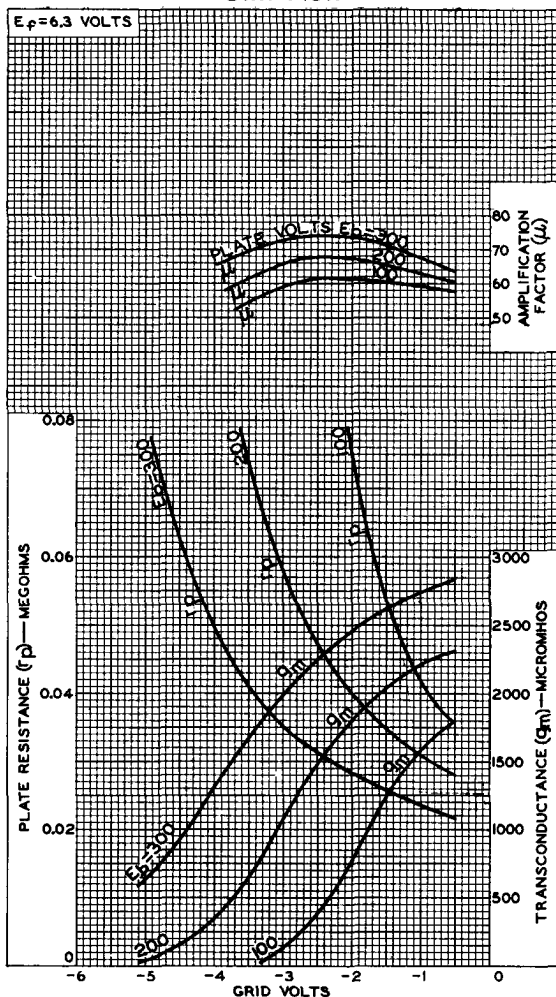
AVERAGE PLATE CHARACTERISTICS Unit No.2



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AVERAGE CHARACTERISTICS Unit No.1

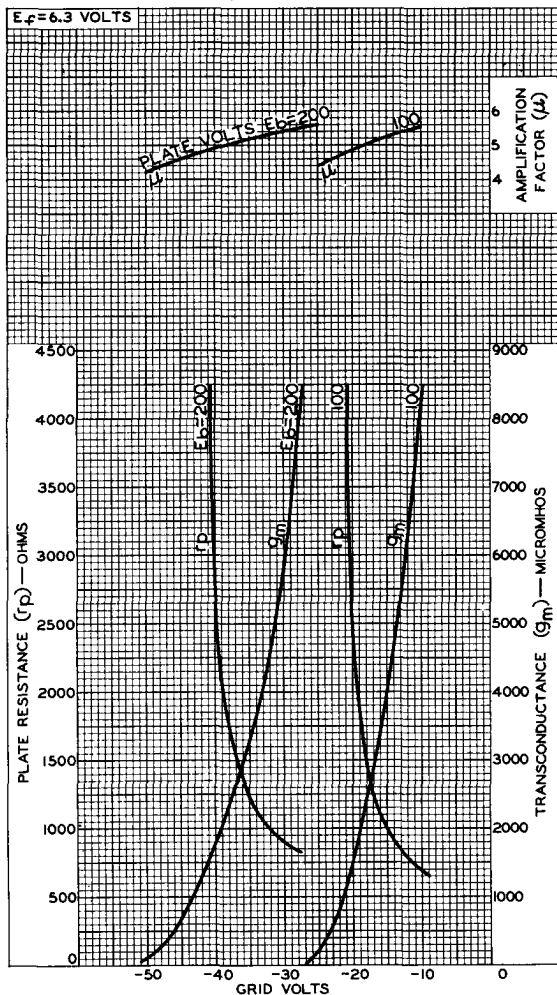


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AVERAGE CHARACTERISTICS Unit No.2



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