

Medium-Mu Triode— Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

For Oscillator-Mixer Service in VHF TV-Tuner Applications

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ^a	6.3 ± 0.6 volts
Current	0.450 ± 0.030	0.450 ^b amp
Warm-up time (Average)	11	— sec

Peak heater-cathode voltage (Each Unit):

Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 ^c max.	volts

Direct Interelectrode Capacitances:^d

Triode Unit:

G _T to P _T	1.6	pf
Input: G _T to (K _T , G _{3P} + K _P + I _S , H)	3.2	pf
Output: P _T to (K _T , G _{3P} + K _P + I _S , H)	1.8	pf

Pentode Unit:

G _{1P} to P _P	0.01 max.	pf
Input: G _{1P} to (K _P + G _{3P} + I _S , G _{2P} , H)	5.5	pf
Output: P _P to (K _P + G _{3P} + I _S , G _{2P} , H)	3.4	pf
Heater to cathode (Each Unit)	3.2	pf

Characteristics, Class A₁ Amplifier:

	Triode Unit	Pentode Unit	
Plate Voltage	125	125	volts
Grid-No.2 Voltage	—	125	volts
Grid-No.1 Voltage	—1	—1	volt
Amplification Factor	46	—	
Plate Resistance (Approx.)	5400	200000	ohms
Transconductance	8500	7500	μmhos
Plate Current	13.5	12	ma
Grid-No.2 Current	—	4	ma
Grid-No.1 Voltage (Approx.) for plate μa = 10	—8	—8	volts

Mechanical:

Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	1-9/16" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See General Section
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No. E9-1)



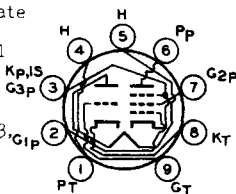
Basing Designation for BOTTOM VIEW. 9FZ

Pin 1-Triode Plate

Pin 2-Pentode
Grid No.1

Pin 3-Pentode
Cathode,
Pentode
Grid No.3
Internal
Shield

Pin 4-Heater



Pin 5-Heater

Pin 6-Pentode
Plate

Pin 7-Pentode
Grid No.2

Pin 8-Triode
Cathode

Pin 9-Triode
Grid

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

	Triode Unit	Pentode Unit	
Plate Voltage.	330 max.	330 max.	volts
Grid-No.2 (Screen-Grid) Supply Voltage	-	330 max.	volts
Grid-No.2 Voltage.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section		
Grid-No.1 (Control-Grid) Voltage:			
Positive-bias value.	0 max.	0 max.	volts
Plate Dissipation.	2.5 max.	2.5 max.	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts.	-	0.55 max.	watt
For grid-No.2 voltages between 165 and 330 volts.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section		

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias

operation. 0.25 max. 0.25 max. megohm

For cathode-bias

operation. 0.5 max. 0.5 max. megohm

^a At heater amperes = 0.450.

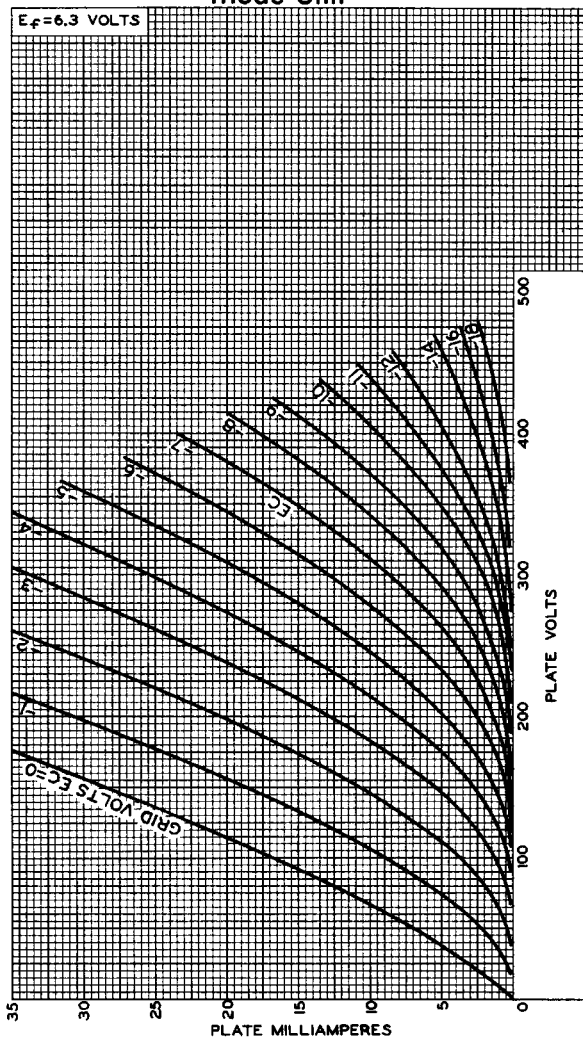
^b At heater volts = 6.3.

^c The dc component must not exceed 100 volts.

^d With external shield JEDEC No.315 connected to cathode of unit under test.

AVERAGE PLATE CHARACTERISTICS

Triode Unit

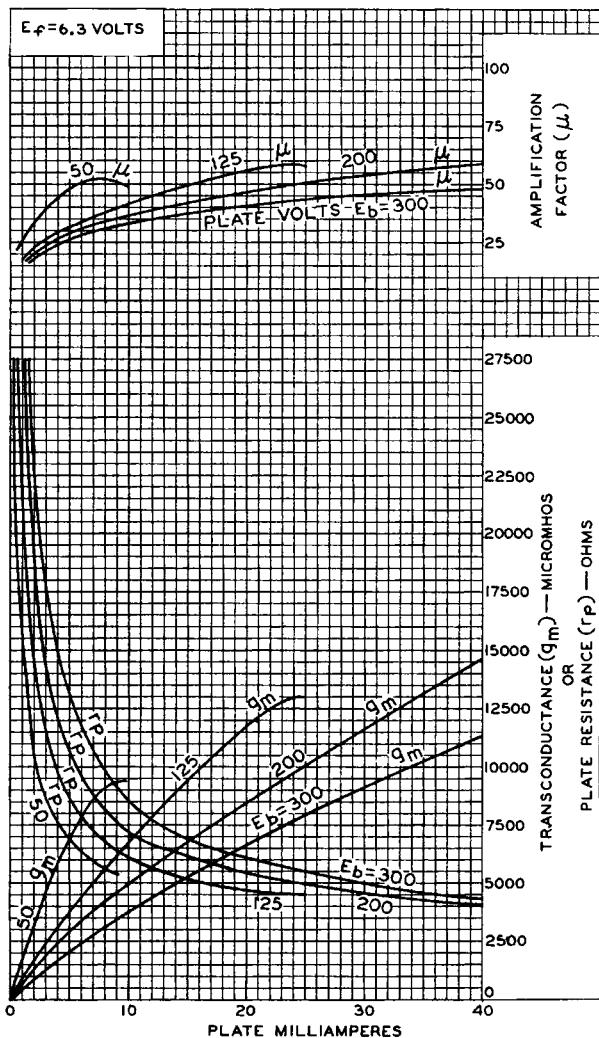


92CM-10421R1



6KZ8

AVERAGE CHARACTERISTICS Triode Unit



ELECTRON TUBE DIVISION

92CM-10428

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

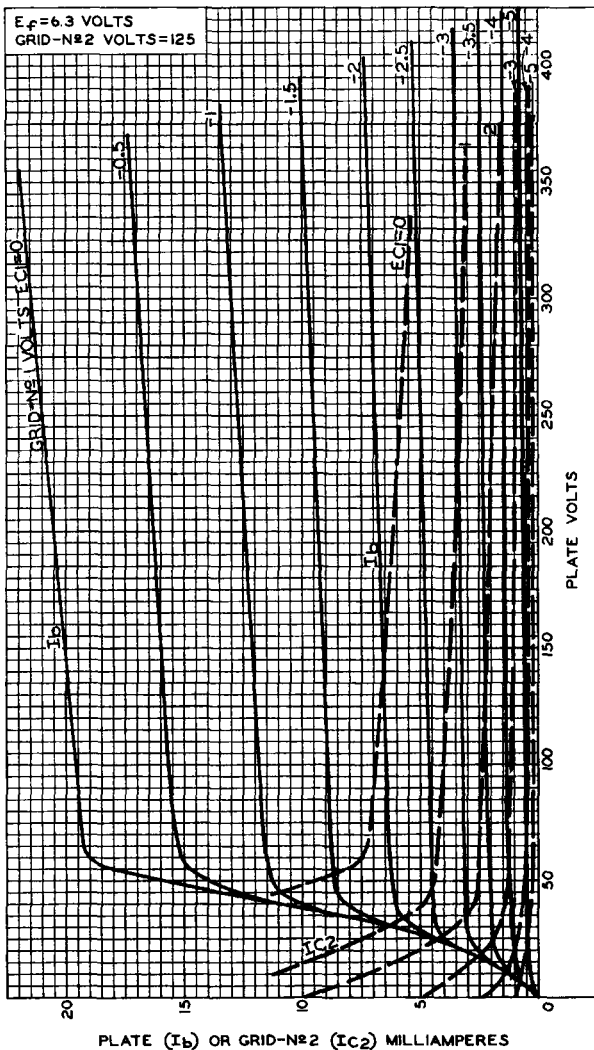
RADIO CORPORATION OF AMERICA
Electronic Components and Devices

Harrison, N. J.

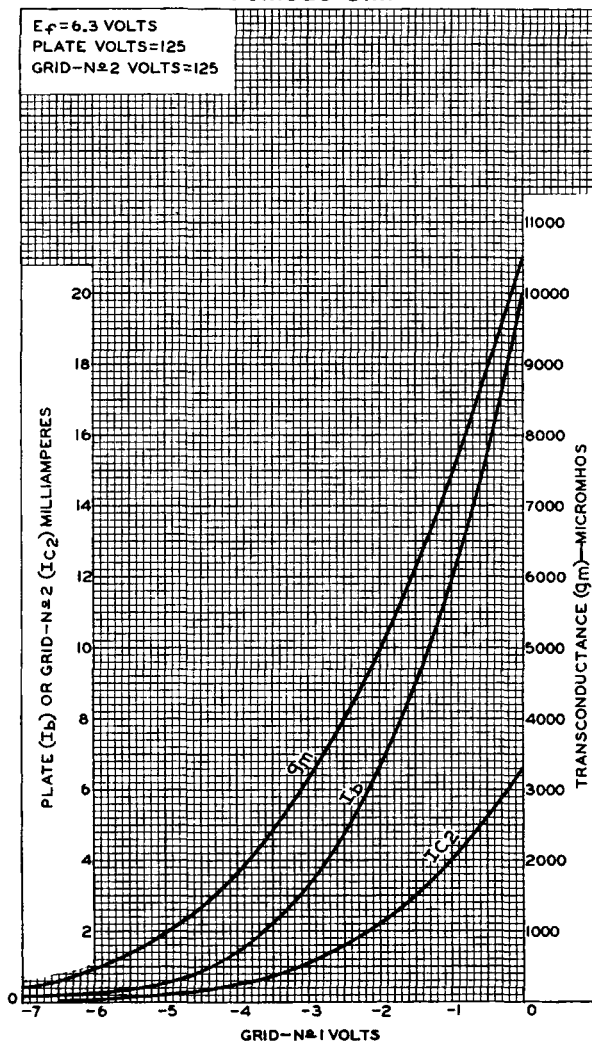


AVERAGE CHARACTERISTICS

Pentode Unit



AVERAGE CHARACTERISTICS Pentode Unit



92CM-10417