

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:

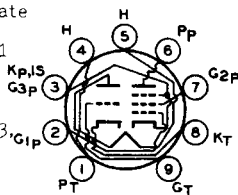
Operating Position	Any
Type of Cathodes	Coated Unipotential
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	1-9/16" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC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



6KZ8

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 <i>Grid-No.2 Input Rating Chart</i> 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 <i>Grid-No.2 Input Rating Chart</i> 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.

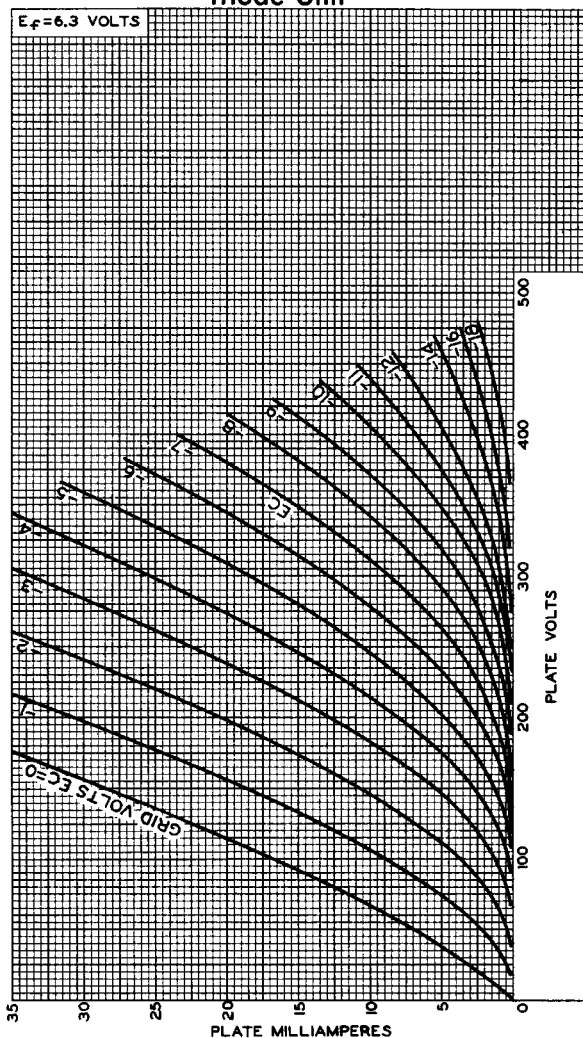
^c The dc component must not exceed 100 volts.

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



AVERAGE PLATE CHARACTERISTICS

Triode Unit

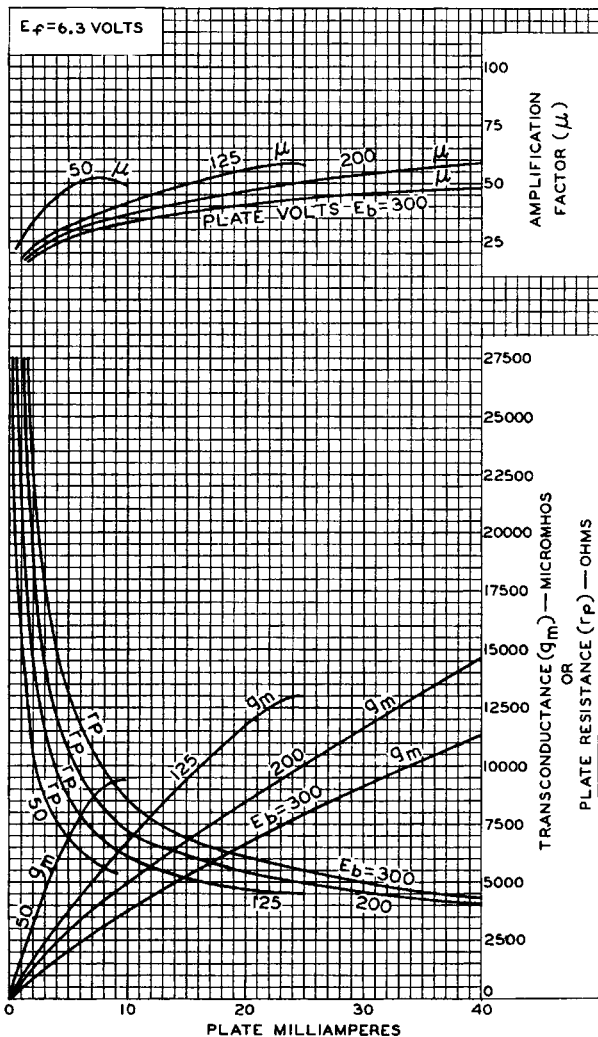


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AVERAGE CHARACTERISTICS Triode Unit



ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-10428

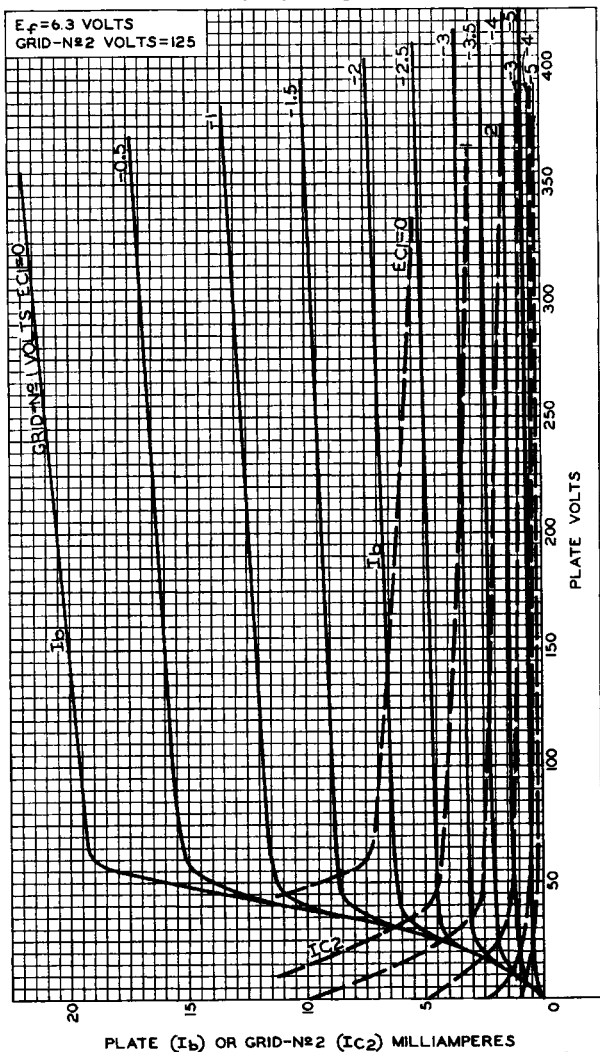
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AVERAGE CHARACTERISTICS

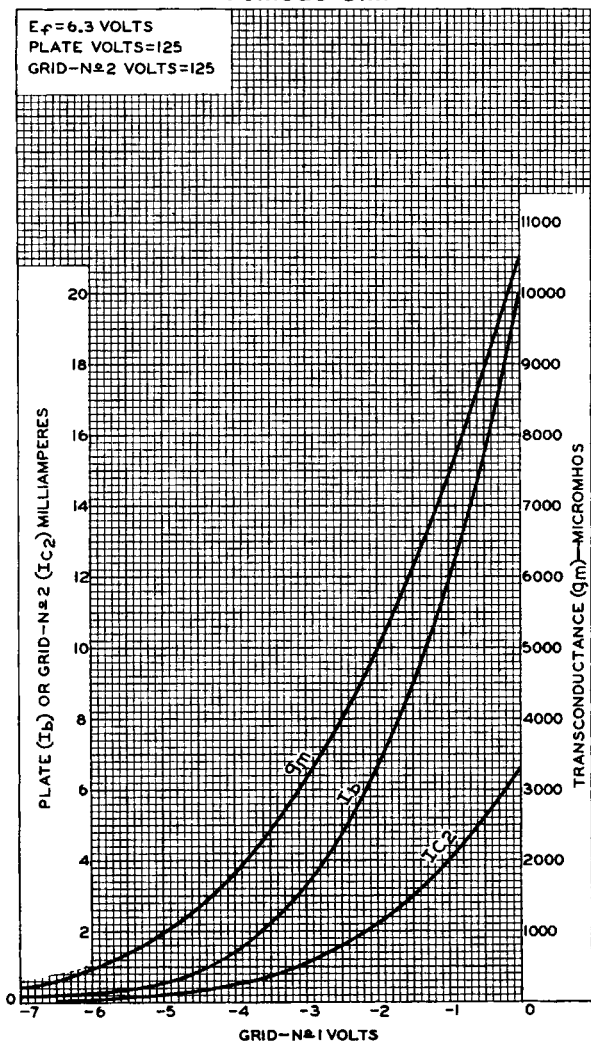
Pentode Unit



6KZ8

AVERAGE CHARACTERISTICS Pentode Unit

$E_f = 6.3$ VOLTS
PLATE VOLTS = 125
GRID-N#2 VOLTS = 125



92CM-10417

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