



6FV6

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SHARP-CUTOFF TETRODE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3 ± 10%	ac or dc volts
Current	0.2	amp

Direct Interelectrode Capacitances:⁰

Grid No.1 to plate	0.03 max.	μf
Grid No.1 to cathode, grid No.2, internal shield, and heater.	4.5	μf
Plate to cathode, grid No.2, internal shield, and heater.	3	μf
Cathode to heater.	2.7 [•]	μf

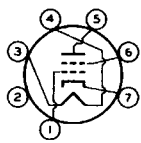
Characteristics, Class A₁ Amplifier:

Plate Voltage.	125	volts
Grid-No.2 (Screen-grid) Voltage.	80	volts
Grid-No.1 (Control-grid) Voltage	-1	volt
Plate Resistance (Approx.)	0.1	megohm
Transconductance	8000	μmhos
Plate Current.	10	ma
Grid-No.2 Current.	1.5	ma
Grid-No.1 Voltage (Approx.) for plate μa = 20.	-6	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length.	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip).	1-1/2" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline.	See General Section
Bulb	T5-1/2
Base	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW7FQ

Pin 1 - Grid No.1
 Pin 2 - Internal
 Shield
 Pin 3 - Heater



Pin 4 - Heater
 Pin 5 - Plate
 Pin 6 - Grid No.2
 Pin 7 - Cathode

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE.	275 max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE	180 max.	volts
GRID-No.2 VOLTAGE.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	

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GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value.	0	max. volts
CATHODE CURRENT.	20	max. ma
GRID-No.2 INPUT:		
For grid-No.2 voltages up to		
90 volts	0.5	max. watt
For grid-No.2 voltages between		
90 and 180 volts	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>	
PLATE DISSIPATION.	2	max. watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	200	max. volts
Heater positive with respect to cathode.	200*	max. volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance 0.5 max. megohm

○ With external shield JEDEC No.316 connected to cathode except as noted.

● With external shield JEDEC No.316 connected to ground.

* The dc component must not exceed 100 volts.

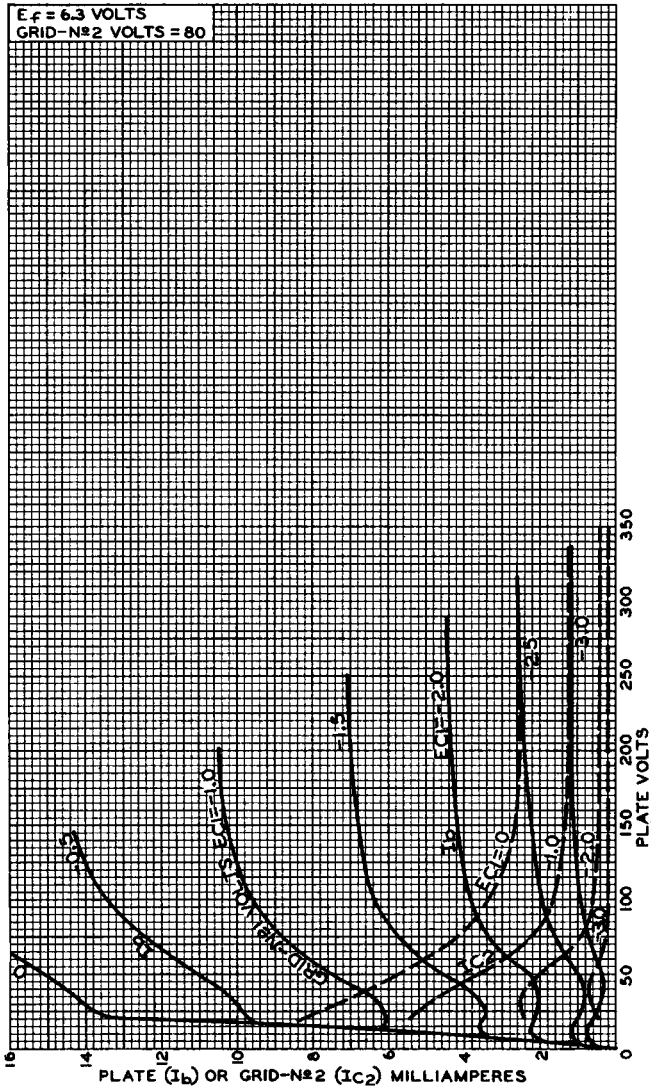


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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
GRID-N $\#$ 2 VOLTS = 80

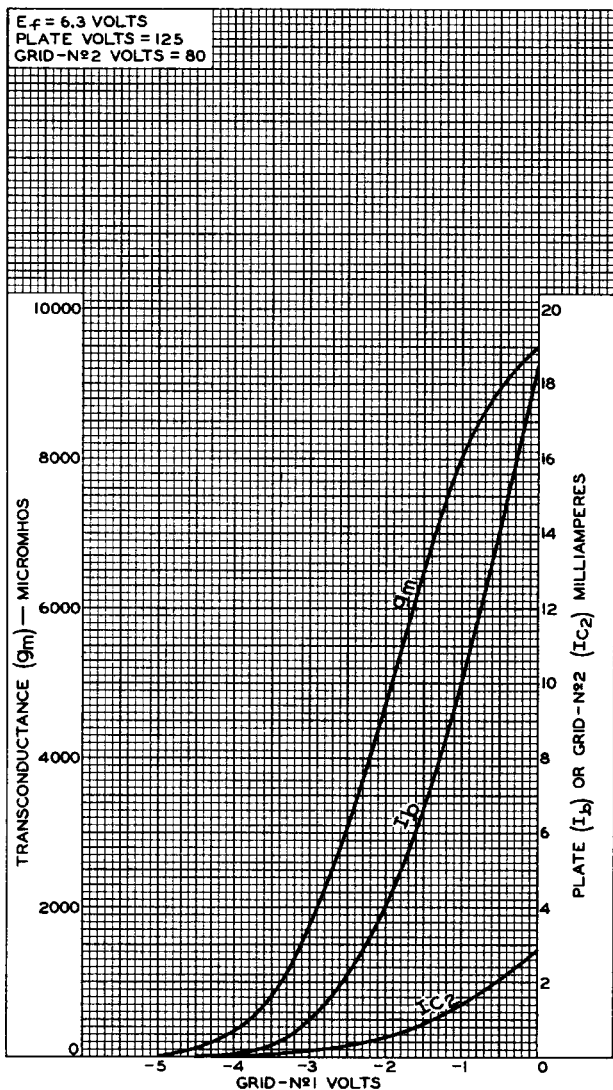


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AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION

92CM-9519

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY