

# 60FX5

## Power Pentode

### 7-PIN MINIATURE TYPE

#### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:		
Voltage (AC or DC) . . . . .	60 ± 10%	volts
Current at 60 volts . . . . .	0.1	amp
Direct Interelectrode Capacitances (Approx.): <sup>▲</sup>		
Grid No.1 to plate . . . . .	0.65	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater . . . . .	17	μf
Plate to cathode & grid No.3, grid No.2, and heater . . . . .	9	μf

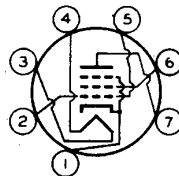
#### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Supply Voltage . . . . .	110	volts
Grid-No.2 Supply Voltage . . . . .	115	volts
Cathode Resistor . . . . .	62	ohms
Plate Resistance (Approx.) . . . . .	17500	ohms
Transconductance . . . . .	13500	μmhos
Plate Current . . . . .	36	ma
Grid-No.2 Current . . . . .	10	ma

#### Mechanical:

Operating Position . . . . .	Any
Maximum Overall Length . . . . .	2-5/8"
Maximum Seated Length . . . . .	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) . . . . .	2" ± 3/32"
Diameter . . . . .	0.650" to 0.750"
Dimensional Outline . . . . .	See <i>General Section</i>
Bulb . . . . .	T5-1/2
Base . . . . .	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW . . . . .	7CV

Pin 1 - Cathode,  
Grid No.3  
Pin 2 - Grid No.1  
Pin 3 - Heater



Pin 4 - Heater  
Pin 5 - Grid No.1  
Pin 6 - Grid No.2  
Pin 7 - Plate

#### AF POWER AMPLIFIER — Class A<sub>1</sub>

#### Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE . . . . .	150 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE . . . . .	130 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive-bias value . . . . .	0 max.	volts
GRID-No.2 INPUT . . . . .	2 max.	watts
PLATE DISSIPATION . . . . .	5.5 max.	watts



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## PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . . .	200	max.	volts
Heater positive with respect to cathode. . . . .	200 <sup>•</sup>	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface). . . . .	225	max.	°C

## Typical Operation:

Plate Supply Voltage. . . . .	110	volts
Grid-No.2 Supply Voltage. . . . .	115	volts
Cathode Resistor. . . . .	62	ohms
Peak AF Grid-No.1 Voltage . . . . .	3	volts
Zero-Signal Plate Current . . . . .	36	ma
Max.-Signal Plate Current . . . . .	35	ma
Zero-Signal Grid-No.2 Current . . . . .	10	ma
Max.-Signal Grid-No.2 Current . . . . .	12	ma
Load Resistance . . . . .	3000	ohms
Total Harmonic Distortion . . . . .	8	%
Max.-Signal Power Output. . . . .	1.3	watts

## Maximum Circuit Values:

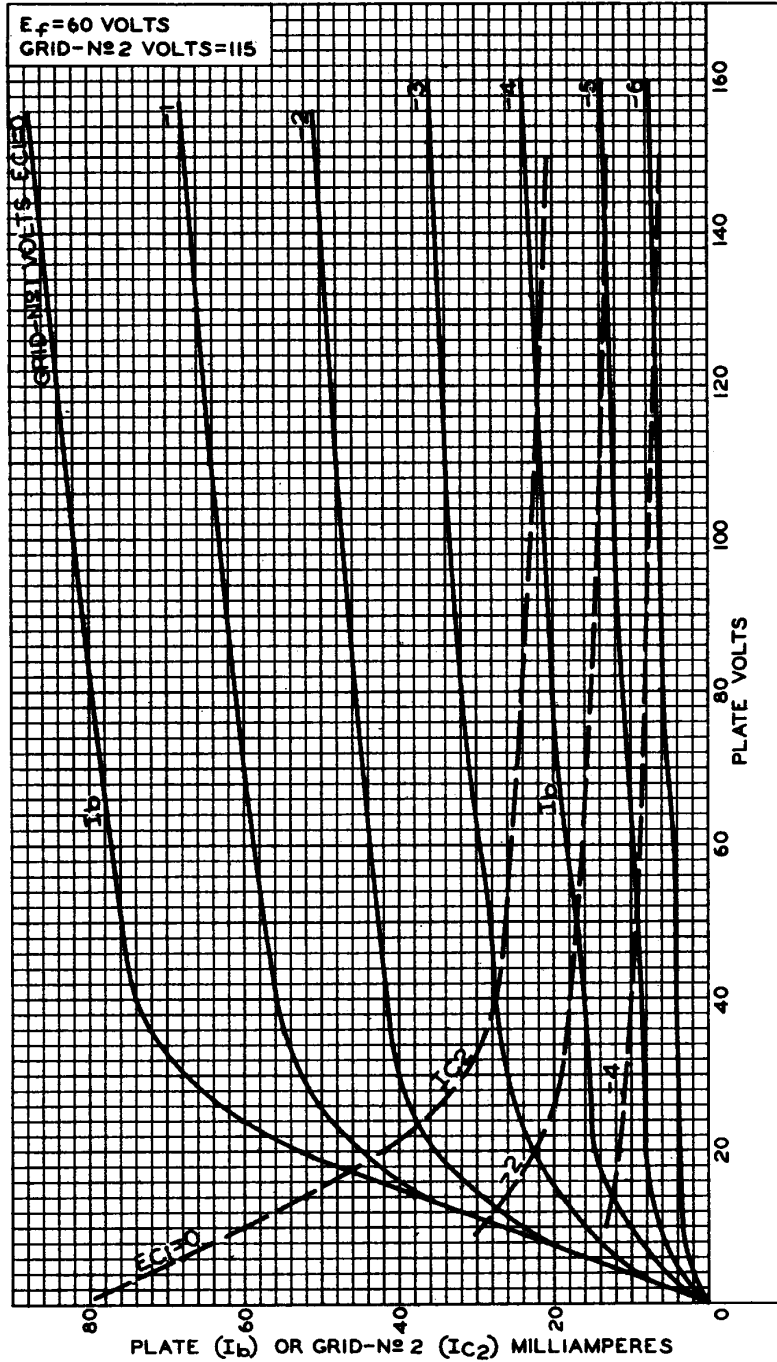
Grid-No.1-Circuit Resistance:			
For fixed-bias operation. . . . .	0.1	max.	megohm
For cathode-bias operation. . . . .	0.5	max.	megohm

- ▲ Without external shield.
- The dc component must not exceed 100 volts.



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## AVERAGE CHARACTERISTICS



92CM-10546

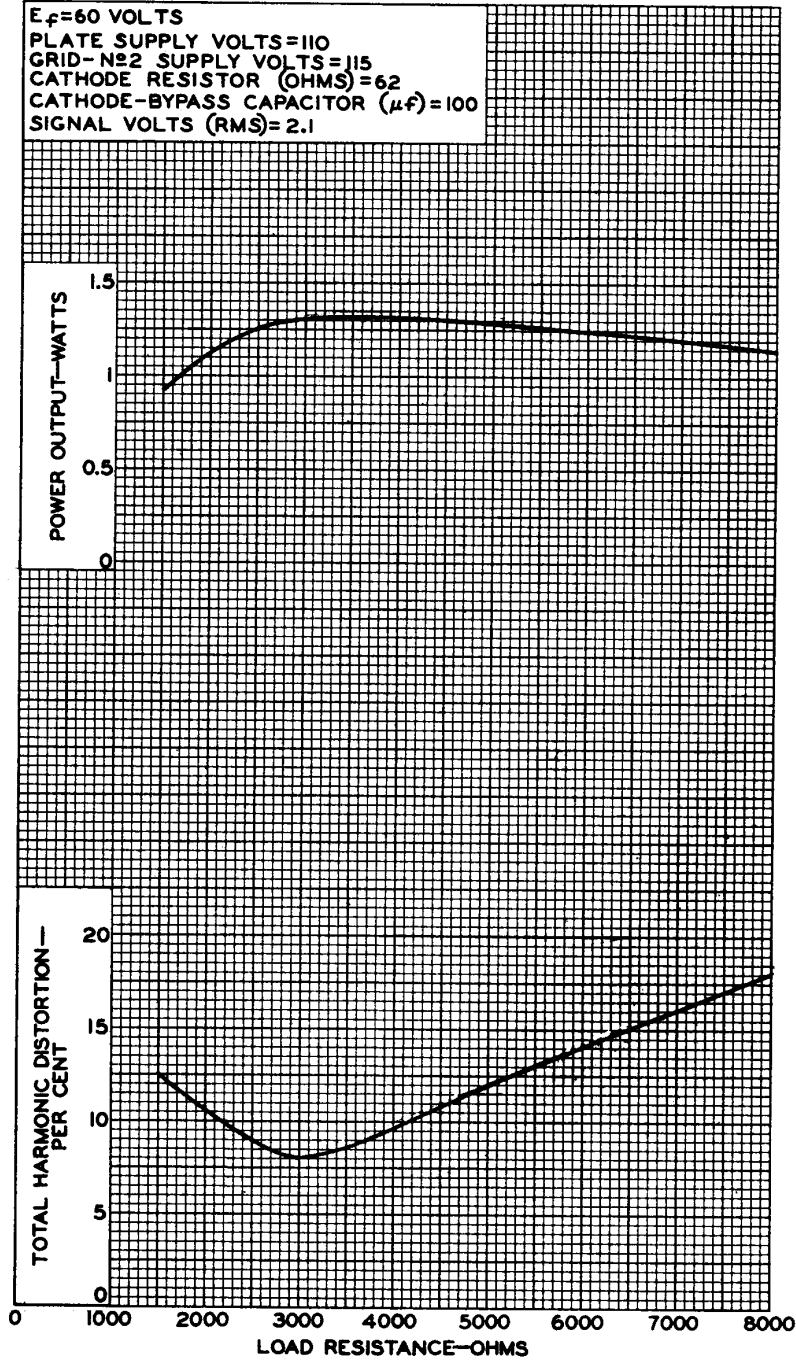


RADIO CORPORATION OF AMERICA  
Electron Tube Division  
Harrison, N. J.

DATA 2  
8-60

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## OPERATION CHARACTERISTICS



92CM-10545

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