

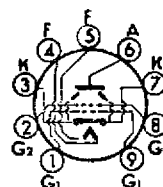
35D5 - BEAM POWER TUBE

The 35D5 is a beam pentode of the 9 pin miniature type, intended especially for use in audio power amplifier service in broadcasting receivers using power-line autotransformer supply, and series string heating arrangement.

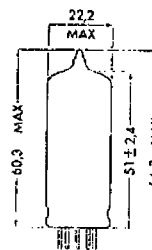
GENERAL DATA

Mechanical Characteristics

Bulb	T-6-1/2
Base	Small Button Novel 9 Pin (Jatrec N° E9-1)
Basing Designation (Bottom View)	9 FU
Maximum Length (overall)	2-5/8"
Maximum Seated Length	2-3/8"
Maximum Diameter	7/8"
Mounting Position	any



Bottom view

Dimensions
in millimeters

Electrical Characteristics:

Heater, for Unipotential Cathode:

Voltage	35 a.c. or d.c. volts
Current	0,15 amperes

Direct Interelectrode Capacitances (Approx. - With no external shield):

Grid No.1 to Plate	0,3 μ F
Input	13,7 μ F
Output	6,7 μ F

Maximum Ratings: (design center values)

A. F. Power Amplifier Class A1:

Plate Voltage	250 max volts
Grid No.2 Voltage	250 max volts
Plate Dissipation	9,5 max watts
Grid No.2 Dissipation	3,6 max watts

Peak Heater-Cathode Voltage:

Heater negative with respect to cathode	150 max volts
Heater positive with respect to cathode	150 max volts

Grid No.1 Circuit Resistance (with cathode bias) 1 megohm max

Typical Operation and Characteristics

A. F. Power Amplifier Class A1:

Plate Voltage	110	170 volts
Grid No.2 Voltage	110	170 volts
Cathode Bias Resistor	200	190 ohms
Plate Current	30	52 ma.
Grid No.2 Current	2,5	3 ma.
Transconductance	8,000	9,500 micromhos
Plate Resistance (Approx.)	18.000	20.000 Ohms
Plate Load Resistance	2.500	2.500 Ohms
Power Output	1,6	4,8 watts
Total Harmonic Distortion	10	10 %

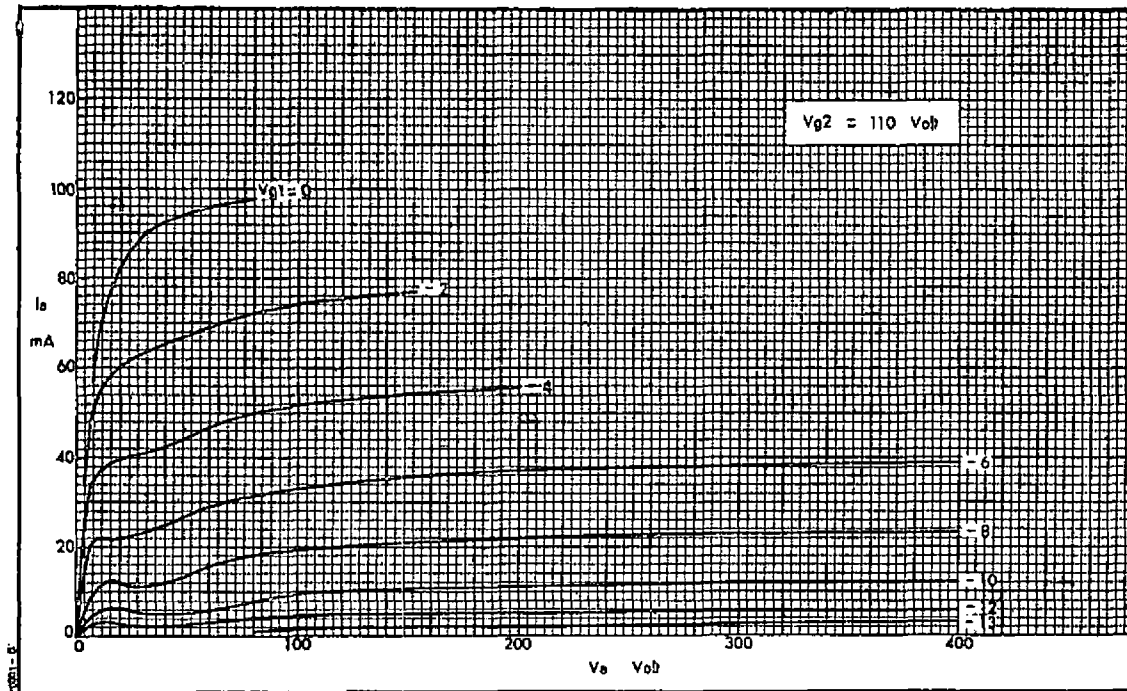


Fig. 1 — Average Plate Characteristics

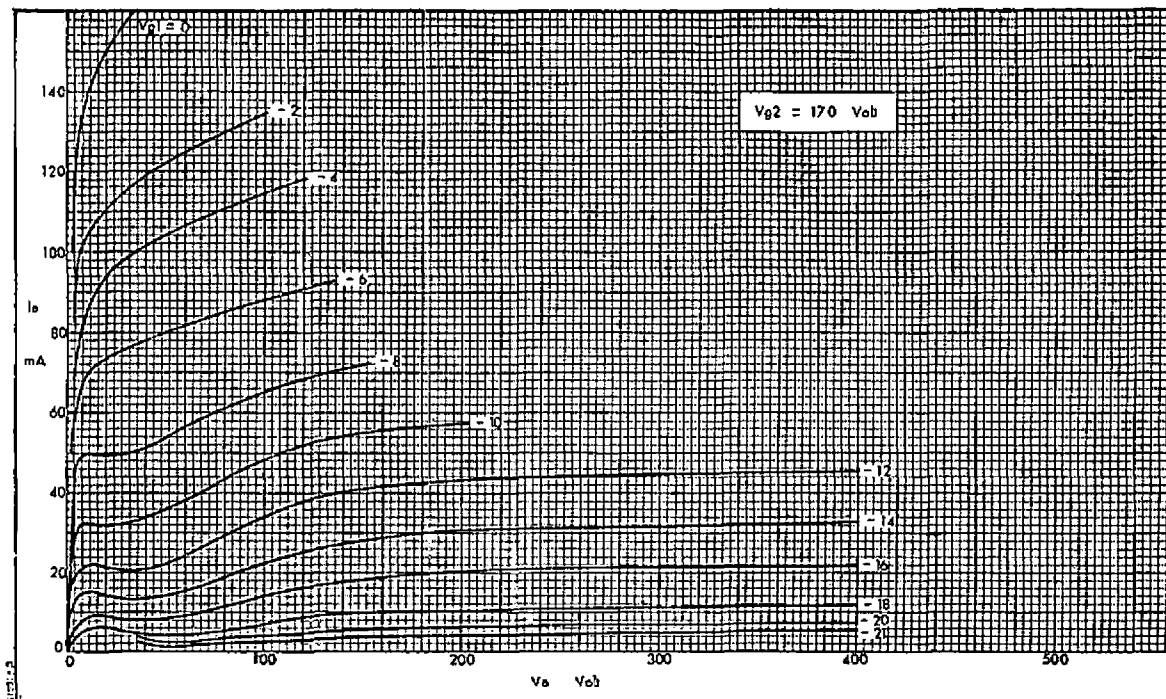


Fig. 2 — Average Plate Characteristics

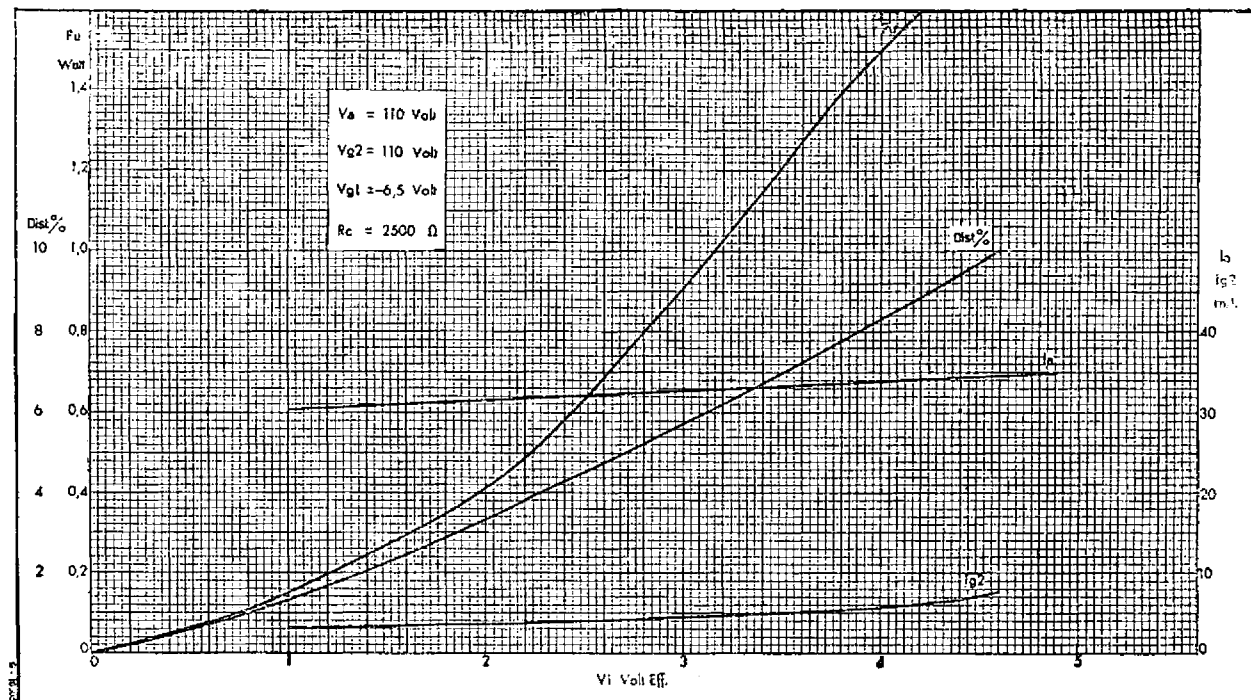


Fig. 3 — Average Characteristics

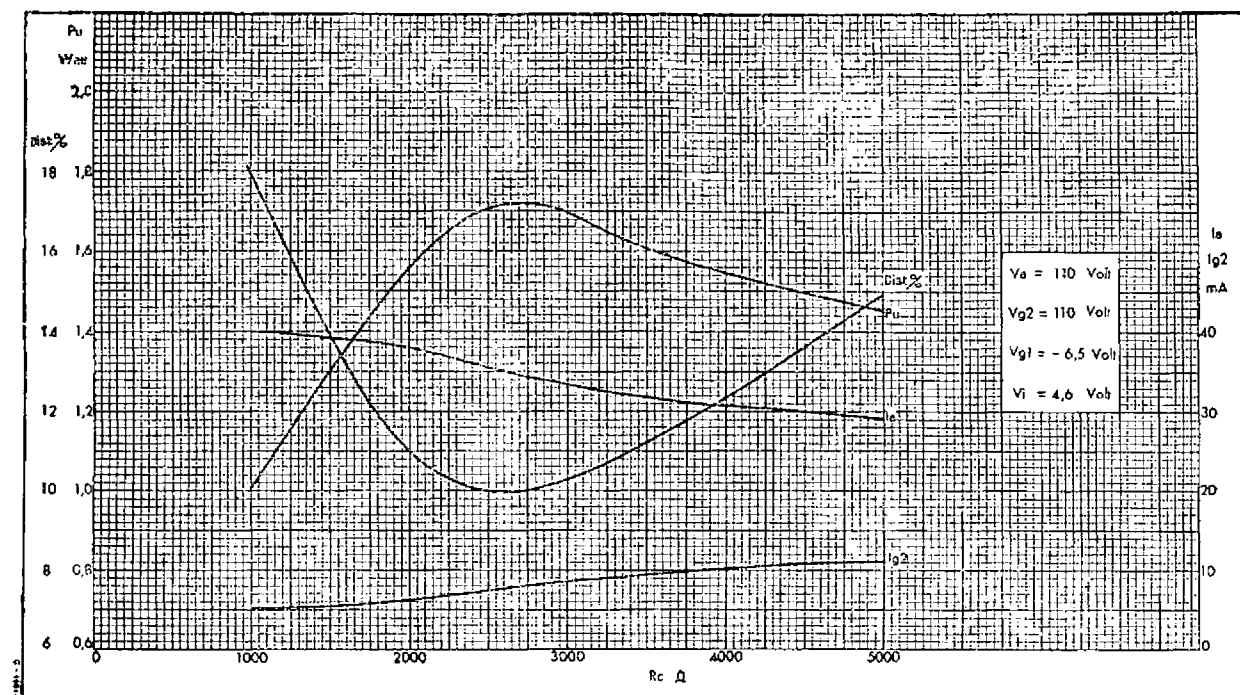


Fig. 4 — Average Characteristics

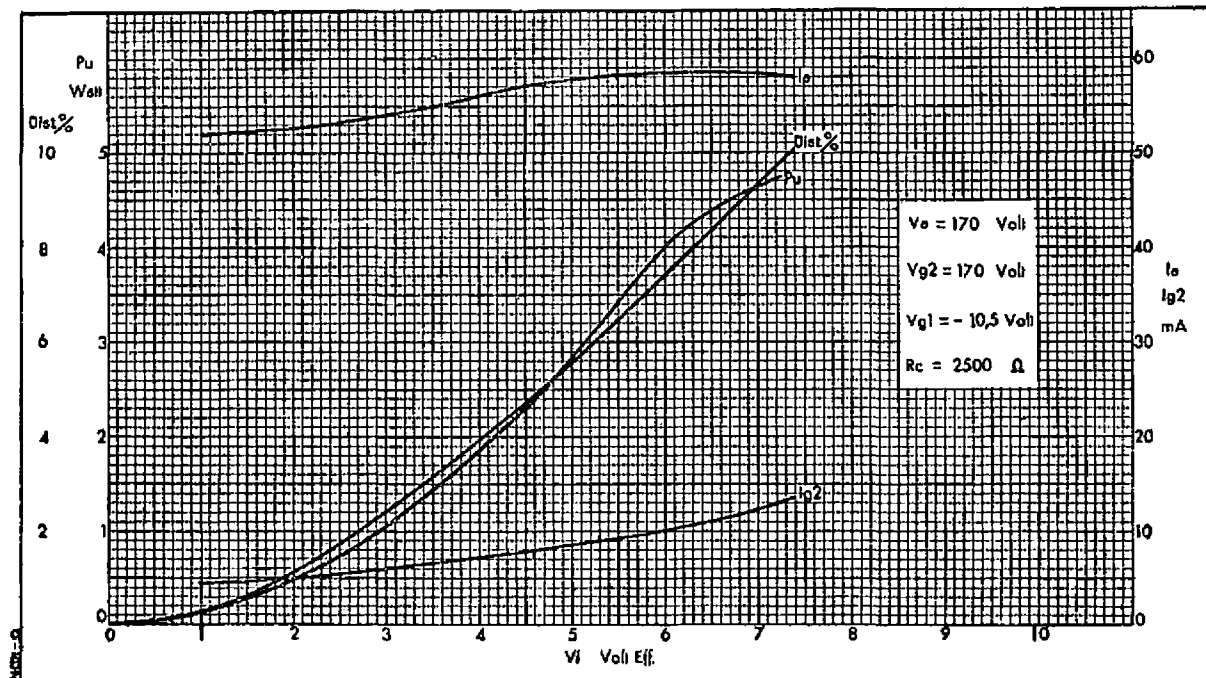


Fig. 5 — Average Characteristics

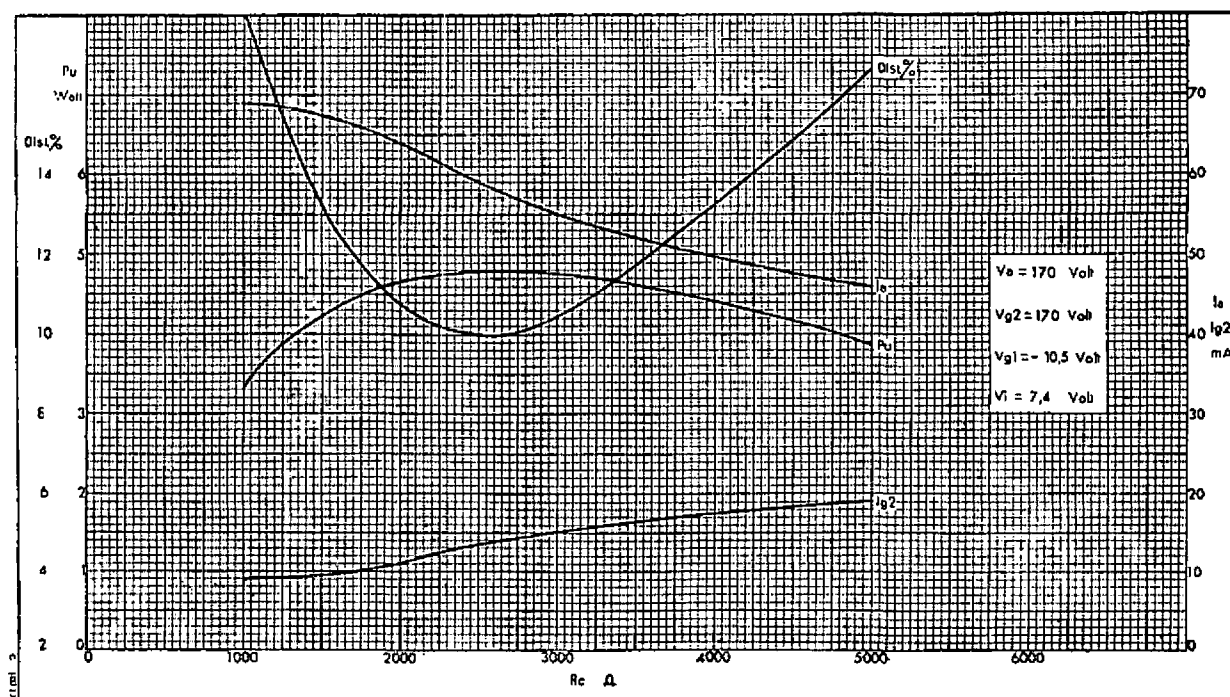


Fig. 6 — Average Characteristics